

Side Two

Operator Name: LARSON ENGINEERING, INC. Lease Name: SPLITTER Well #: 2-35

Sec. 35 Twp. 18 S. R. 29 East West County: LANE

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geologist well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E. Logs Run: DUAL INDUCTION
DUAL COMP POROSITY
MICRORESISTIVITY

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
BASE ANHYDRITE	2178	+635
HEEBNER	3957	-1144
LANSING	4003	-1190
STARK	4282	-1469
BASE KC	4363	-1550
PAWNEE	4482	-1669
FORT SCOTT	4532	-1719
CHEROKEE SH	554	-1741

RECEIVED
JUL 30 2010

KCC WICHITA

KCC
JUL 28 2010

CONFIDENTIAL

CASING RECORD New Used
Report all strings set - conductor, surface, intermediate, production, etc.

Purpose of string	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12-1/4"	8-5/8"	23#	265'	CLASS A	175	2% GEL, 3% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth		Type of Cement	# Sacks Used	Type and Percent Additives
	Top	Bottom			

Shots per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid. Fracture, Shot, Cement, Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or Enhr. _____ Producing Method: Flowing Pumping Gas Lift Other (Explain) _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>If vented, submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input checked="" type="checkbox"/> Other (Specify) D & A	PRODUCTION INTERVAL: _____
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ALLIED CEMENTING CO., LLC. 039232

KCC

JUL 28 2010

SERVICE POINT:

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

OK
4-15-10

DATE <u>7-14-10</u>	SEC. <u>35</u>	TWP. <u>18</u>	RANGE. <u>29</u>	CONFIDENTIAL CALLED OUT	ON LOCATION <u>7:30am</u>	JOB START <u>5:30am</u>	JOB FINISH <u>6:00am</u>
LEASE <u>Splitter</u>	WELL# <u>2-35</u>	LOCATION <u>Dighton 25-24-314</u>			COUNTY <u>LANE</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)				<u>SK</u>			

CONTRACTOR H-D Duls

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 4630'

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 2170'

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER _____

CEMENT AMOUNT ORDERED 280 60/40 49 seal
114 16 seal

EQUIPMENT

PUMP TRUCK CEMENTER Fuzz

431 HELPER Kelly

BULK TRUCK

347 DRIVER Walbur

BULK TRUCK

_____ DRIVER _____

COMMON	<u>168</u>	@	<u>13.65</u>	<u>2293.20</u>
POZMIX	<u>112</u>	@	<u>7.60</u>	<u>851.20</u>
GEL	<u>10</u>	@	<u>20.00</u>	<u>200.00</u>
CHLORIDE		@		
ASC		@		
<u>Flt-seal</u>		@	<u>2.45</u>	<u>171.50</u>
RECEIVED				
JUL 30 2010				
KCC WICHITA				
HANDLING	<u>293</u>	@	<u>2.10</u>	<u>615.30</u>
MILEAGE	<u>110 x 5 km</u>			<u>879.00</u>
TOTAL				<u>5014.20</u>

REMARKS:

50 SKS @ 2170'

80 SKS @ 1320'

50 SKS @ 740'

50 SKS @ 300'

20 SKS @ 60'

30 SKS @ RT

Job completed @ 5:30AM

THANKS K-224 & crew

CHARGE TO: Larson Engineering

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2170'

PUMP TRUCK CHARGE 1000.00

EXTRA FOOTAGE @ _____

MILEAGE 30 @ 7.00 210.00

MANIFOLD @ _____

TOTAL 1210.00

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

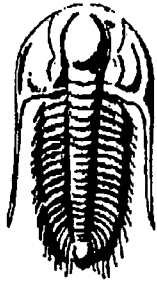
PRINTED NAME Day Robert

SIGNATURE Day Robert

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.08 @ 22:05:38

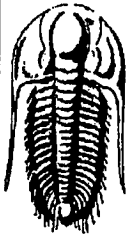
End Date: 2010.04.09 @ 05:16:32

Job Ticket #: 38223 DST #: 1

KCC
JUL 28 2010
CONFIDENTIAL

RECEIVED
JUL 30 2010
KCC WICHITA

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 Inc

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

Splitter #2-35

35-18s-29w Lane KS

Job Ticket: 38223

DST#: 1

Test Start: 2010.04.08 @ 22:05:38

GENERAL INFORMATION:

Formation: **LKC "I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:49:03

Time Test Ended: 05:16:32

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: 4218.00 ft (KB) To 4252.00 ft (KB) (TVD)

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4252.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8365

Inside

Press@RunDepth: 22.34 psig @ 4219.01 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.08

End Date:

2010.04.09

Last Calib.: 2010.04.09

Start Time: 22:05:38

End Time:

05:16:32

Time On Btmr: 2010.04.09 @ 00:47:03

Time Off Btmr: 2010.04.09 @ 03:05:02

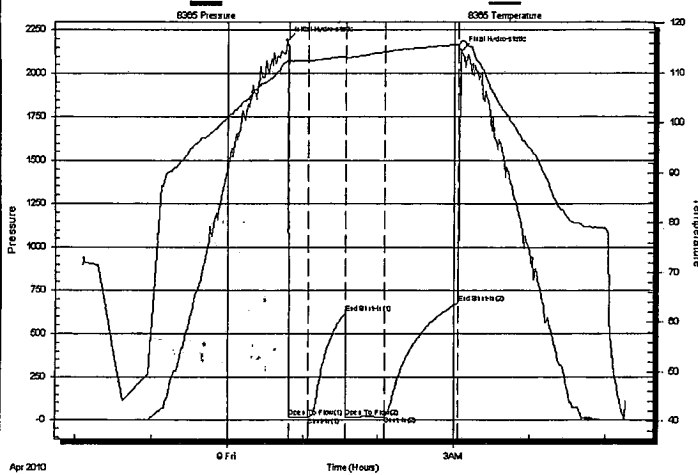
TEST COMMENT: IFP-surface bl thru-out

FFP-no bl

Times 15-30-30-60

no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

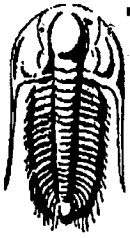
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2189.44	112.39	Initial Hydro-static
2	15.56	111.95	Open To Flow (1)
18	16.35	112.54	Shut-In(1)
47	621.06	113.37	End Shut-In(1)
47	17.34	113.01	Open To Flow (2)
78	22.34	114.30	Shut-In(2)
136	679.58	115.76	End Shut-In(2)
138	2132.66	116.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w/show of oil	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmritz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 38223

DST#: 1

ATTN: Tom Larson

Test Start: 2010.04.08 @ 22:05:38

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.80 inches	Volume: 57.16 bbl	Tool Weight: 2200.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4218.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.02 ft			
Tool Length:	62.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

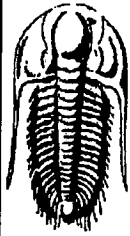
Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			4191.00	
Shut In Tool	5.00			4196.00	
Hydraulic tool	5.00			4201.00	
Jars	5.00			4206.00	
Safety Joint	2.00			4208.00	
Packer	5.00			4213.00	28.00 Bottom Of Top Packer
Packer	5.00			4218.00	
Stubb	1.00			4219.00	
Recorder	0.01	8365	Inside	4219.01	
Recorder	0.01	6625	Outside	4219.02	
Perforations	30.00			4249.02	
Bullnose	3.00			4252.02	34.02 Bottom Packers & Anchor

Total Tool Length: 62.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 38223

DST#: 1

ATTN: TomLarson

Test Start: 2010.04.08 @ 22:05:38

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.35 in³

Gas Cushion Type:

Resistivity: ohmm

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/show of oil	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

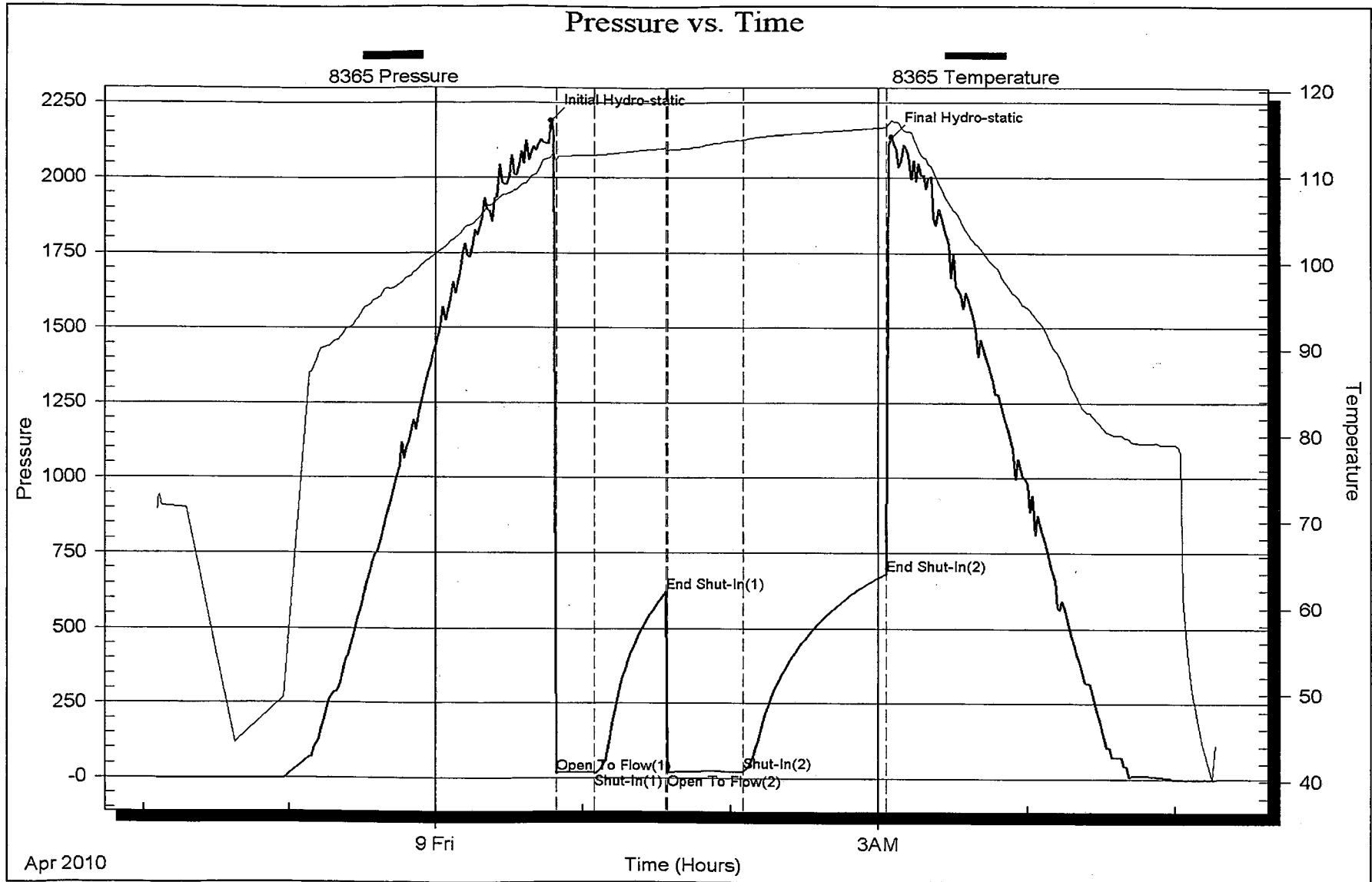
Num Gas Bombs: 0

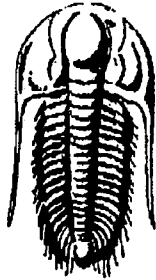
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.09 @ 14:42:34

End Date: 2010.04.09 @ 20:55:58

Job Ticket #: 38224 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering Inc

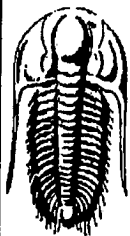
Splitter #2-35

35-18s-29w Lane KS

DST # 2

LKC "J"

2010.04.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

Splitter #2-35

35-18s-29w Lane KS

Job Ticket: 38224

DST#: 2

Test Start: 2010.04.09 @ 14:42:34

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:44:59

Time Test Ended: 20:55:58

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **4247.00 ft (KB) To 4270.00 ft (KB) (TVD)**

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4270.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8365 Inside

Press@RunDepth: 146.97 psig @ 4248.01 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.09

End Date:

2010.04.09

Last Calib.: 2010.04.09

Start Time: 14:42:34

End Time:

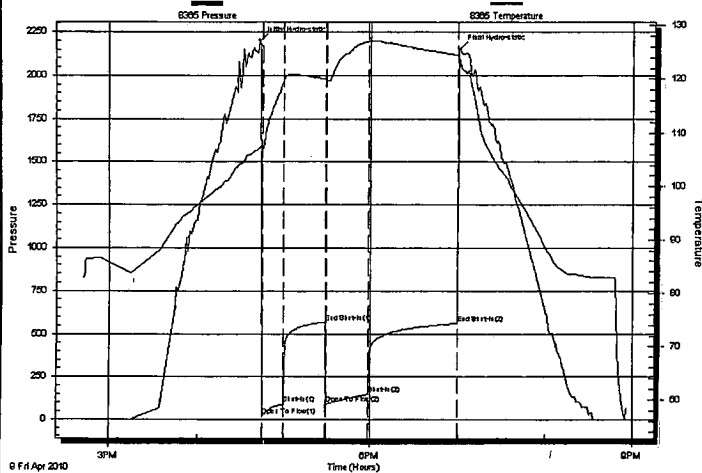
20:55:58

Time On Btm: 2010.04.09 @ 16:42:59

Time Off Btm: 2010.04.09 @ 19:00:28

TEST COMMENT: IFP-wk to a fr bl surface to 5"bl
FFP-wk to a fr bl, surface to 4 1/2"bl
Times 15-30-30-60
no bl on shut-in

Pressure vs. Time



PRESSURE SUMMARY

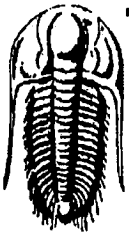
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2200.40	107.11	Initial Hydro-static
2	21.54	106.94	Open To Flow (1)
17	89.33	119.47	Shut-In(1)
46	568.72	119.99	End Shut-In(1)
47	92.18	119.73	Open To Flow (2)
76	146.97	126.99	Shut-In(2)
136	561.21	124.40	End Shut-In(2)
138	2151.84	123.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	MW 40%/M60%W	0.49
180.00	Water	2.34

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmritz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 38224

DST#: 2

ATTN: Tom Larson

Test Start: 2010.04.09 @ 14:42:34

Tool Information

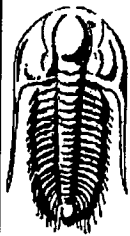
Drill Pipe:	Length: 4112.00 ft	Diameter: 3.80 inches	Volume: 57.68 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4247.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.02 ft			
Tool Length:	51.02 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			4220.00	
Shut In Tool	5.00			4225.00	
Hydraulic tool	5.00			4230.00	
Jars	5.00			4235.00	
Safety Joint	2.00			4237.00	
Packer	5.00			4242.00	28.00 Bottom Of Top Packer
Packer	5.00			4247.00	
Stubb	1.00			4248.00	
Recorder	0.01	8365	Inside	4248.01	
Recorder	0.01	6625	Outside	4248.02	
Perforations	19.00			4267.02	
Bullnose	3.00			4270.02	23.02 Bottom Packers & Anchor

Total Tool Length: 51.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 38224

DST#: 2

ATTN: TomLarson

Test Start: 2010.04.09 @ 14:42:34

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:

43000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.75 in³

Gas Cushion Type:

Resistivity: ohmm

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
100.00	MW 40% MV 60% W	0.492
180.00	Water	2.343

Total Length: 280.00 ft Total Volume: 2.835 bbf

Num Fluid Samples: 0

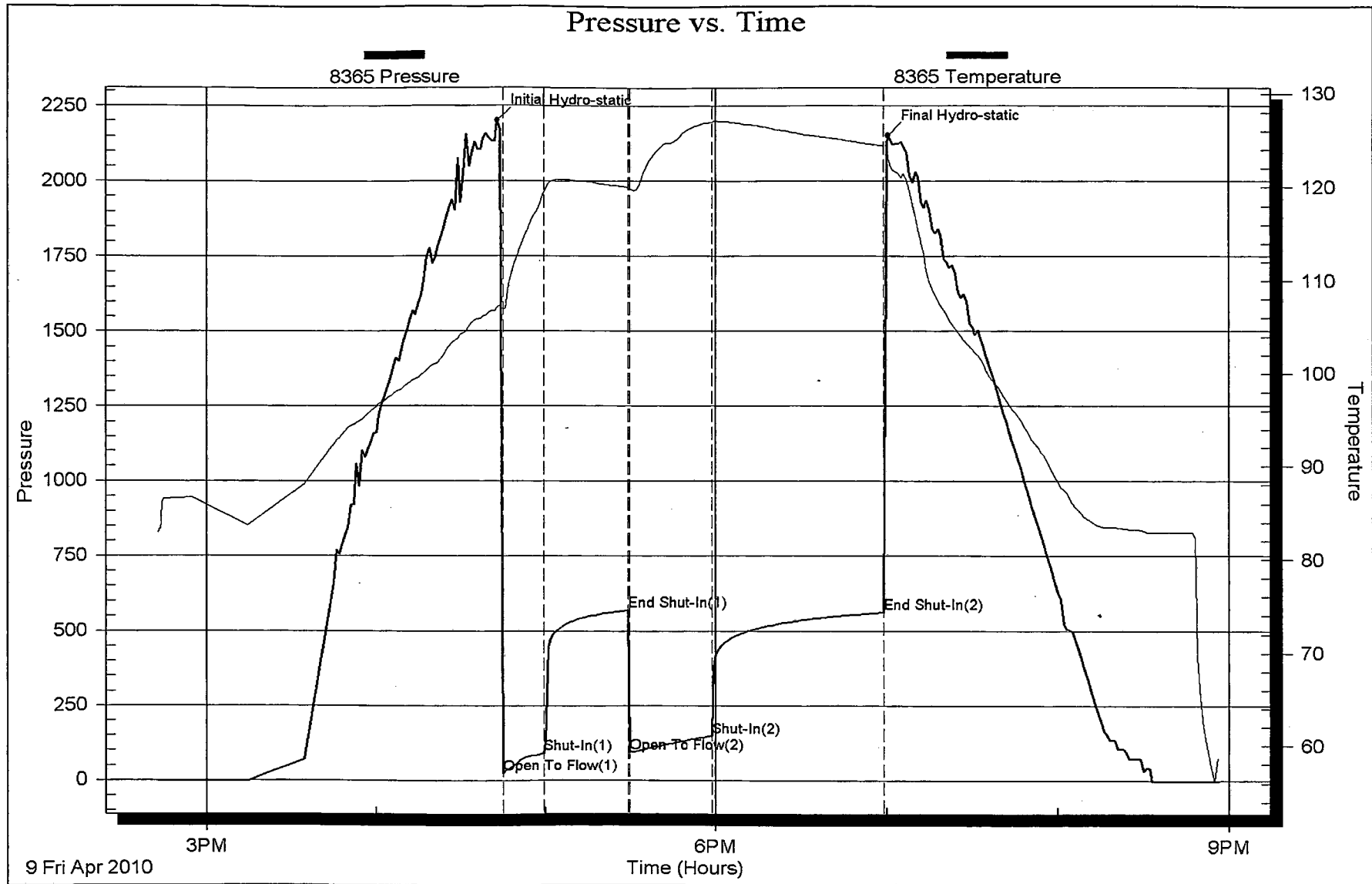
Num Gas Bombs: 0

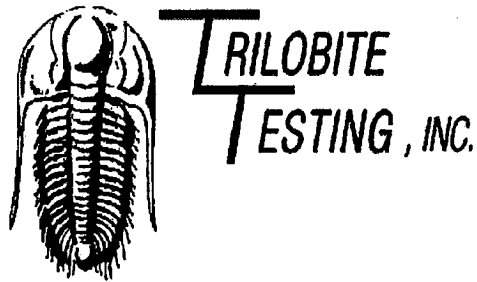
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.17@70F





DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.10 @ 06:15:24

End Date: 2010.04.10 @ 12:44:33

Job Ticket #: 37831 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering Inc

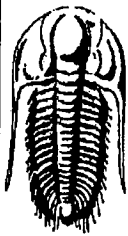
Splitter #2-35

35-18s-29w Lane KS

DST # 3

K Zone

2010.04.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: TomLarson

Splitter #2-35

35-18s-29w Lane KS

Job Ticket: 37831

DST#: 3

Test Start: 2010.04.10 @ 06:15:24

GENERAL INFORMATION:

Formation: **KZone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:37:34

Time Test Ended: 12:44:33

Interval: **4276.00 ft (KB) To 4295.00 ft (KB) (TVD)**

Total Depth: 4295.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Reference Elevations: 2813.00 ft (KB)

2803.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press@RunDepth: 84.73 psig @ 4277.00 ft (KB)

Start Date: 2010.04.10

End Date:

2010.04.10

Start Time: 06:15:24

End Time:

12:44:33

Capacity: 8000.00 psig

Last Calib.: 2010.04.10

Time On Btm: 2010.04.10 @ 08:36:04

Time Off Btm: 2010.04.10 @ 10:54:48

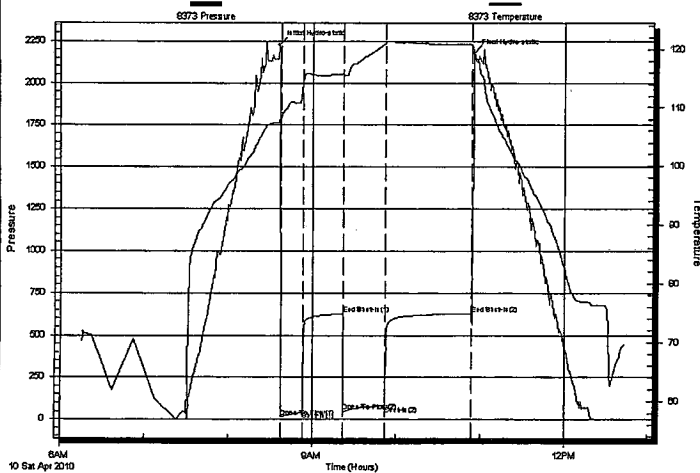
TEST COMMENT: IF: 1/4 blow built to 2 in 15 min.

IS: No return.

FF: Surface blow built to 4 in 30 min.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

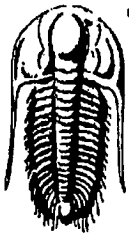
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2228.70	107.46	Initial Hydro-static
2	15.61	107.69	Open To Flow (1)
17	45.66	113.97	Shut-In(1)
46	625.48	115.71	End Shut-In(1)
47	49.36	115.38	Open To Flow (2)
77	84.73	120.90	Shut-In(2)
138	627.12	120.74	End Shut-In(2)
139	2182.01	119.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	w cm 50%w 50% m	0.30
92.00	w cm 40%w 60% m	0.76

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc
562 W State Rd 4
Olmritz KS 67564-8561
ATTN: Tom Larson

Splitter #2-35
35-18s-29w Lane KS
Job Ticket: 37831 **DST#: 3**
Test Start: 2010.04.10 @ 06:15:24

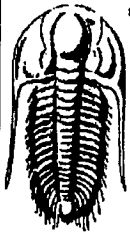
Tool Information

Drill Pipe:	Length: 4138.00 ft	Diameter: 3.80 inches	Volume: 58.05 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4276.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 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
Stubb	1.00			4249.00	
Shut In Tool	5.00			4254.00	
Hydraulic tool	5.00			4259.00	
Jars	5.00			4264.00	
Safety Joint	3.00			4267.00	
Packer	5.00			4272.00	28.00 Bottom Of Top Packer
Packer	4.00			4276.00	
Stubb	1.00			4277.00	
Recorder	0.00	8373	Inside	4277.00	
Recorder	0.00	6772	Outside	4277.00	
Perforations	13.00			4290.00	
Bullnose	5.00			4295.00	19.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37831

DST#: 3

ATTN: Tom Larson

Test Start: 2010.04.10 @ 06:15:24

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:

30000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.77 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	w cm 50%w 50%m	0.305
92.00	w cm 40%w 60%m	0.762

Total Length: 154.00 ft Total Volume: 1.067 bbl

Num Fluid Samples: 0

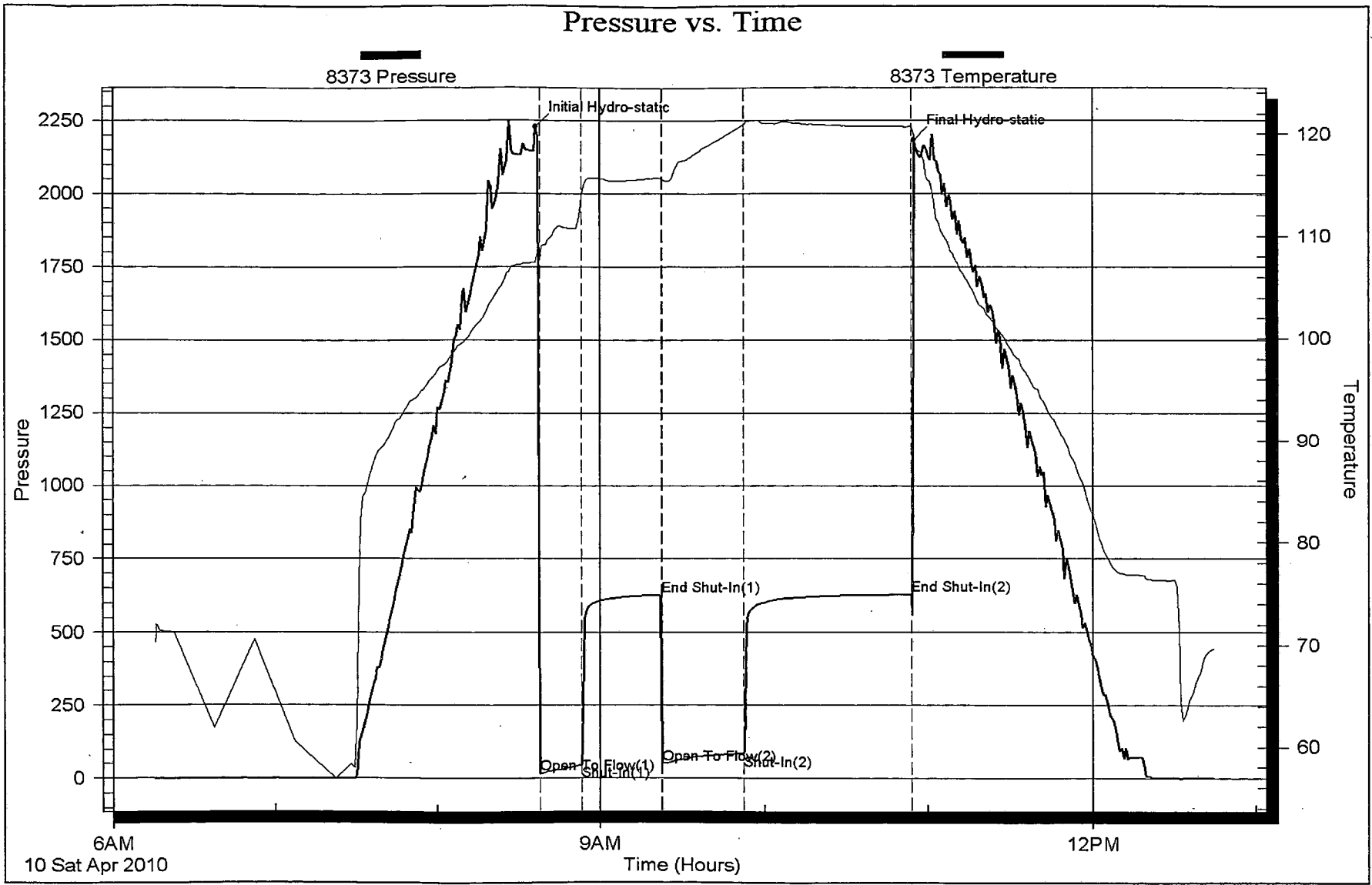
Num Gas Bombs: 0

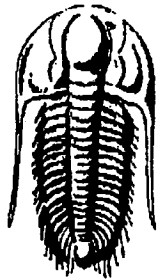
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .22@74=30000





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.10 @ 22:25:40

End Date: 2010.04.11 @ 04:31:34

Job Ticket #: 37832 DST #: 4

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering Inc

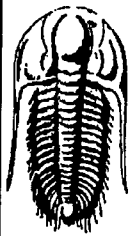
Splitter #2-35

35-18s-29w Lane KS

DST # 4

Middle Creek

2010.04.10



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Larson

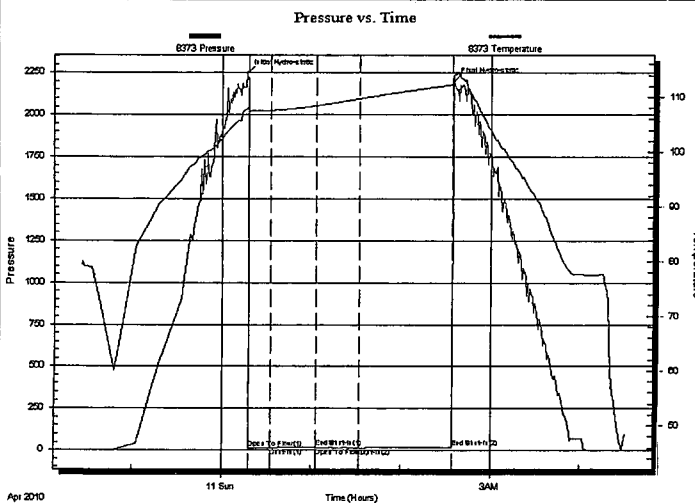
Splitter #2-35
35-18s-29w Lane KS
Job Ticket: 37832 **DST#: 4**
Test Start: 2010.04.10 @ 22:25:40

GENERAL INFORMATION:

Formation: **Middle Creek**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:18:05
Time Test Ended: 04:31:34
Interval: **4318.00 ft (KB) To 4332.00 ft (KB) (TVD)**
Total Depth: 4332.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35
Reference Elevations: 2813.00 ft (KB)
2803.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8373 Inside
Press@RunDepth: 14.98 psig @ 4319.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2010.04.10 End Date: 2010.04.11 Last Calib.: 2010.04.11
Start Time: 22:25:40 End Time: 04:31:34 Time On Btm: 2010.04.11 @ 00:16:50
Time Off Btm: 2010.04.11 @ 02:35:05

TEST COMMENT: IF: Weak surface blow died in 6 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

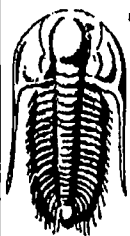
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.54	107.83	Initial Hydro-static
2	10.71	106.72	Open To Flow (1)
17	14.23	107.55	Shut-In(1)
47	18.83	108.43	End Shut-In(1)
47	13.75	108.43	Open To Flow (2)
76	14.98	109.69	Shut-In(2)
138	17.39	112.30	End Shut-In(2)
139	2197.64	113.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	mud 100% m	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmritz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37832

DST#: 4

ATTN: Tom Larson

Test Start: 2010.04.10 @ 22:25:40

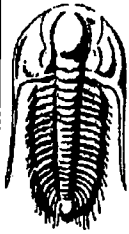
Tool Information

Drill Pipe:	Length: 4198.00 ft	Diameter: 3.80 inches	Volume: 58.89 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4318.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4291.00	
Shut In Tool	5.00			4296.00	
Hydraulic tool	5.00			4301.00	
Jars	5.00			4306.00	
Safety Joint	3.00			4309.00	
Packer	5.00			4314.00	28.00 Bottom Of Top Packer
Packer	4.00			4318.00	
Stubb	1.00			4319.00	
Recorder	0.00	8373	Inside	4319.00	
Recorder	0.00	6772	Outside	4319.00	
Perforations	8.00			4327.00	
Bullnose	5.00			4332.00	14.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37832

DST#: 4

ATTN: Tom Larson

Test Start: 2010.04.10 @ 22:25:40

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 2300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	mud 100%m	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

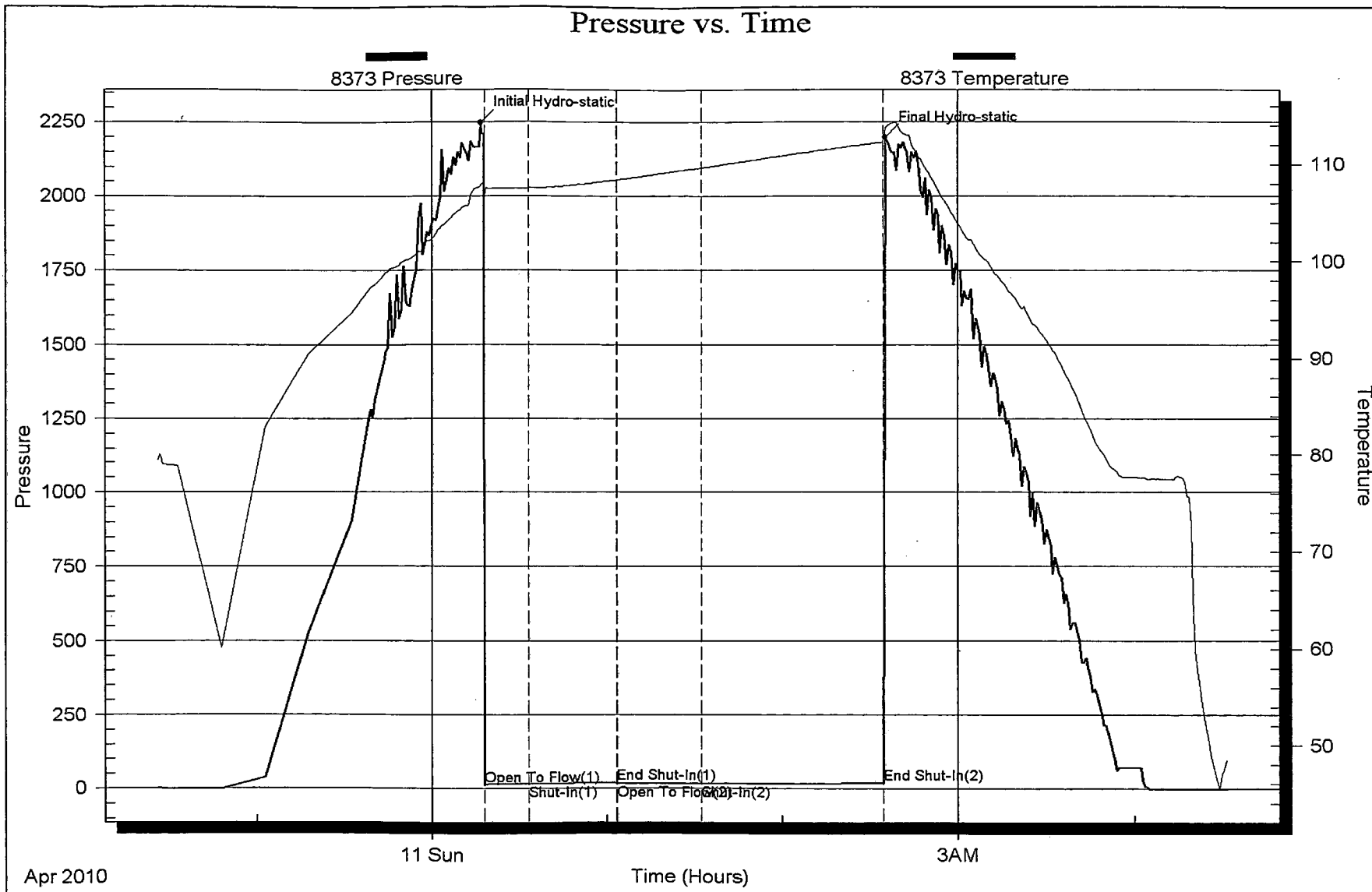
Num Gas Bombs: 0

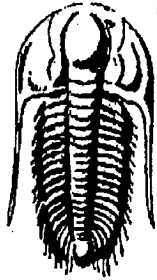
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.12 @ 00:11:01

End Date: 2010.04.12 @ 05:39:55

Job Ticket #: 37833 DST #: 5

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering Inc

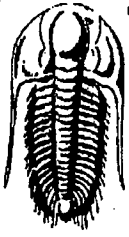
Splitter #2-35

35-18s-29w Lane KS

DST # 5

Altamont

2010.04.12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Larson Engineering Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: Tom Larson

Splitter #2-35
35-18s-29w Lane KS
Job Ticket: 37833 **DST#: 5**
Test Start: 2010.04.12 @ 00:11:01

GENERAL INFORMATION:

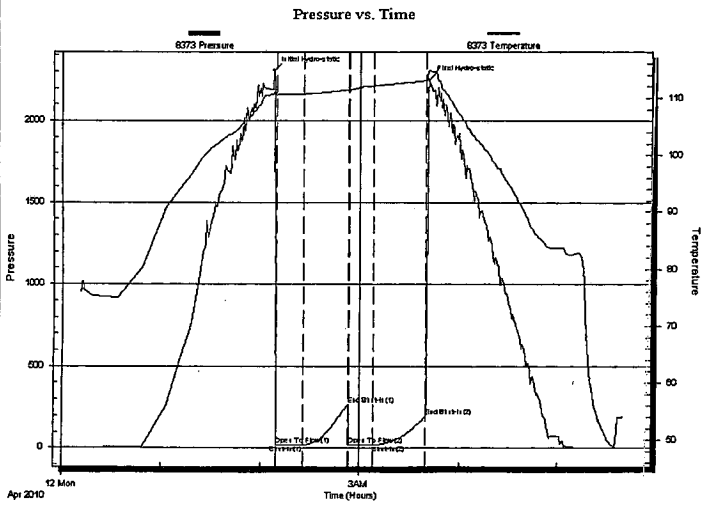
Formation: **Altamont**
Deviated: **No Whipstock:** **ft (KB)**
Time Tool Opened: 02:09:11
Time Test Ended: 05:39:55
Interval: **4364.00 ft (KB) To 4432.00 ft (KB) (TVD)**
Total Depth: **4432.00 ft (KB) (TVD)**
Hole Diameter: **7.85 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**
Reference Elevations: **2813.00 ft (KB)**
2803.00 ft (CF)
KB to GR/CF: **10.00 ft**

Serial #: 8373

Inside

Press@RunDepth: **18.14 psig @ 4365.00 ft (KB)** Capacity: **8000.00 psig**
Start Date: **2010.04.12** End Date: **2010.04.12** Last Calib.: **2010.04.12**
Start Time: **00:11:01** End Time: **05:39:55** Time On Btm: **2010.04.12 @ 02:07:41**
Time Off Btm: **2010.04.12 @ 03:41:11**

TEST COMMENT: IF: 1/4 blow died in 8 min.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

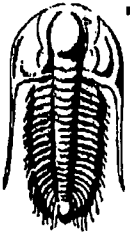
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.00	110.79	Initial Hydro-static
2	16.55	110.60	Open To Flow (1)
18	16.81	110.77	Shut-In(1)
46	264.08	111.48	End Shut-In(1)
46	17.50	111.36	Open To Flow (2)
61	18.14	112.17	Shut-In(2)
92	191.75	113.09	End Shut-In(2)
94	2249.17	114.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% _m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc
562 W State Rd 4
Olmritz KS 67564-8561
ATTN: Tom Larson

Splitter #2-35
35-18s-29w Lane KS
Job Ticket: 37833 **DST#: 5**
Test Start: 2010.04.12 @ 00:11:01

Tool Information

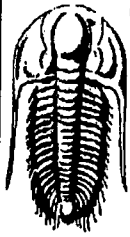
Drill Pipe:	Length: 4229.00 ft	Diameter: 3.80 inches	Volume: 59.32 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 59.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4364.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4337.00	
Shut In Tool	5.00			4342.00	
Hydraulic tool	5.00			4347.00	
Jars	5.00			4352.00	
Safety Joint	3.00			4355.00	
Packer	5.00			4360.00	28.00 Bottom Of Top Packer
Packer	4.00			4364.00	
Stubb	1.00			4365.00	
Recorder	0.00	8373	Inside	4365.00	
Recorder	0.00	6772	Outside	4365.00	
Perforations	29.00			4394.00	
Change Over Sub	1.00			4395.00	
Drill Pipe	31.00			4426.00	
Change Over Sub	1.00			4427.00	
Bullnose	5.00			4432.00	68.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37833

DST#: 5

ATTN: Tom Larson

Test Start: 2010.04.12 @ 00:11:01

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: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% _m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

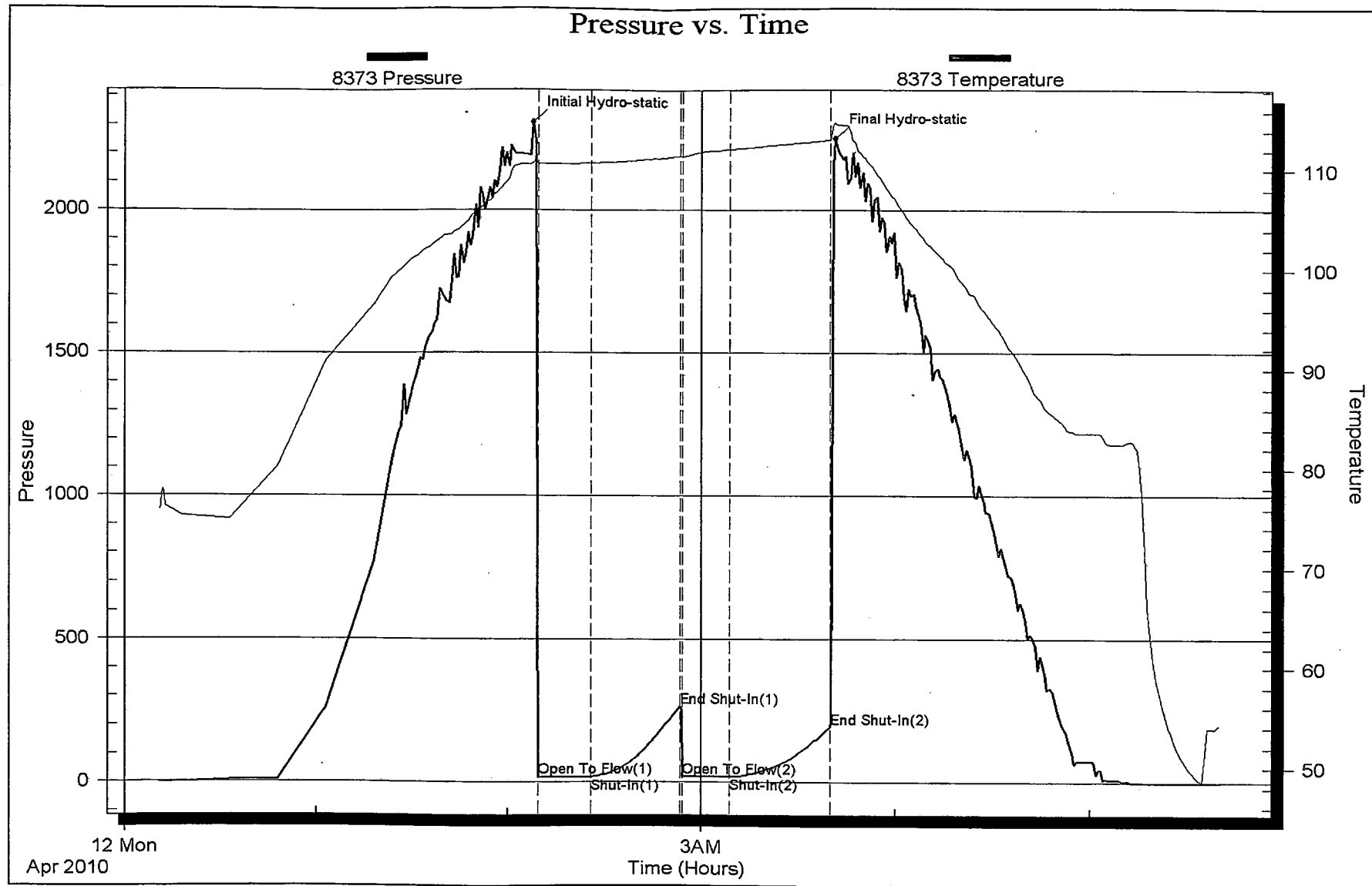
Num Gas Bombs: 0

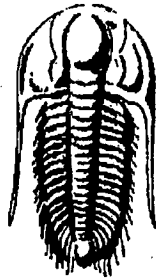
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.12 @ 15:38:35

End Date: 2010.04.12 @ 22:03:44

Job Ticket #: 37834 DST #: 6

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering Inc

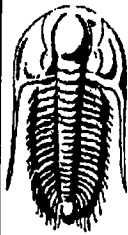
Splitter #2-35

35-18s-29w Lane KS

DST # 6

Altamont A

2010.04.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Engineering Inc

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

Splitter #2-35

35-18s-29w Lane KS

Job Ticket: 37834

DST#: 6

Test Start: 2010.04.12 @ 15:38:35

GENERAL INFORMATION:

Formation: **Altamont A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:39:45

Time Test Ended: 22:03:44

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4415.00 ft (KB) To 4452.00 ft (KB) (TVD)**

Reference Elevations: 2813.00 ft (KB)

Total Depth: 4452.00 ft (KB) (TVD)

2803.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press@RunDepth: 105.40 psig @ 4420.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2010.04.12

End Date:

2010.04.12

Last Calib.: 2010.04.12

Start Time: 15:38:35

End Time:

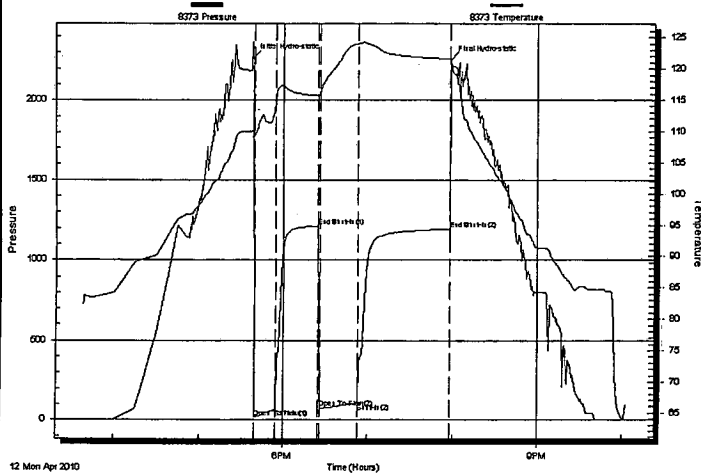
22:03:44

Time On Btmr: 2010.04.12 @ 17:38:30

Time Off Btmr: 2010.04.12 @ 19:58:14

TEST COMMENT: IF: Surface blow built to 3 in 15 min.
IS: No return.
FF: Surface blow built to 7 in 30 min.
FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

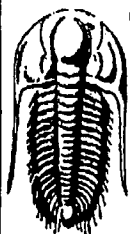
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2266.41	110.14	Initial Hydro-static
2	16.69	109.35	Open To Flow (1)
17	69.75	114.76	Shut-In(1)
47	1212.74	115.76	End Shut-In(1)
47	74.75	115.75	Open To Flow (2)
75	105.40	123.94	Shut-In(2)
139	1193.15	121.58	End Shut-In(2)
140	2256.45	121.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	mcw 60%w 40% m	0.65
72.00	w cm 30%w 70% m	1.01

Gas Rates

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmritz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37834

DST#: 6

ATTN: Tom Larson

Test Start: 2010.04.12 @ 15:38:35

Tool Information

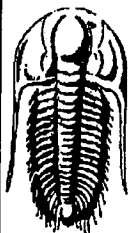
Drill Pipe:	Length: 4291.00 ft	Diameter: 3.80 inches	Volume: 60.19 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 60.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4415.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4392.00	
Shut In Tool	5.00			4397.00	
Hydraulic tool	5.00			4402.00	
Jars	5.00			4407.00	
Safety Joint	3.00			4410.00	
Packer	5.00			4415.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4419.00	
Stubb	1.00			4420.00	
Recorder	0.00	8373	Inside	4420.00	
Recorder	0.00	6772	Outside	4420.00	
Perforations	31.00			4451.00	
Bullnose	5.00			4456.00	41.00 Anchor Tool

Total Tool Length: 65.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37834

DST#: 6

ATTN: Tom Larson

Test Start: 2010.04.12 @ 15:38:35

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:

36000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2600.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	mcw 60%w 40%m	0.646
72.00	w cm 30%w 70%m	1.010

Total Length: 196.00 ft Total Volume: 1.656 bbl

Num Fluid Samples: 0

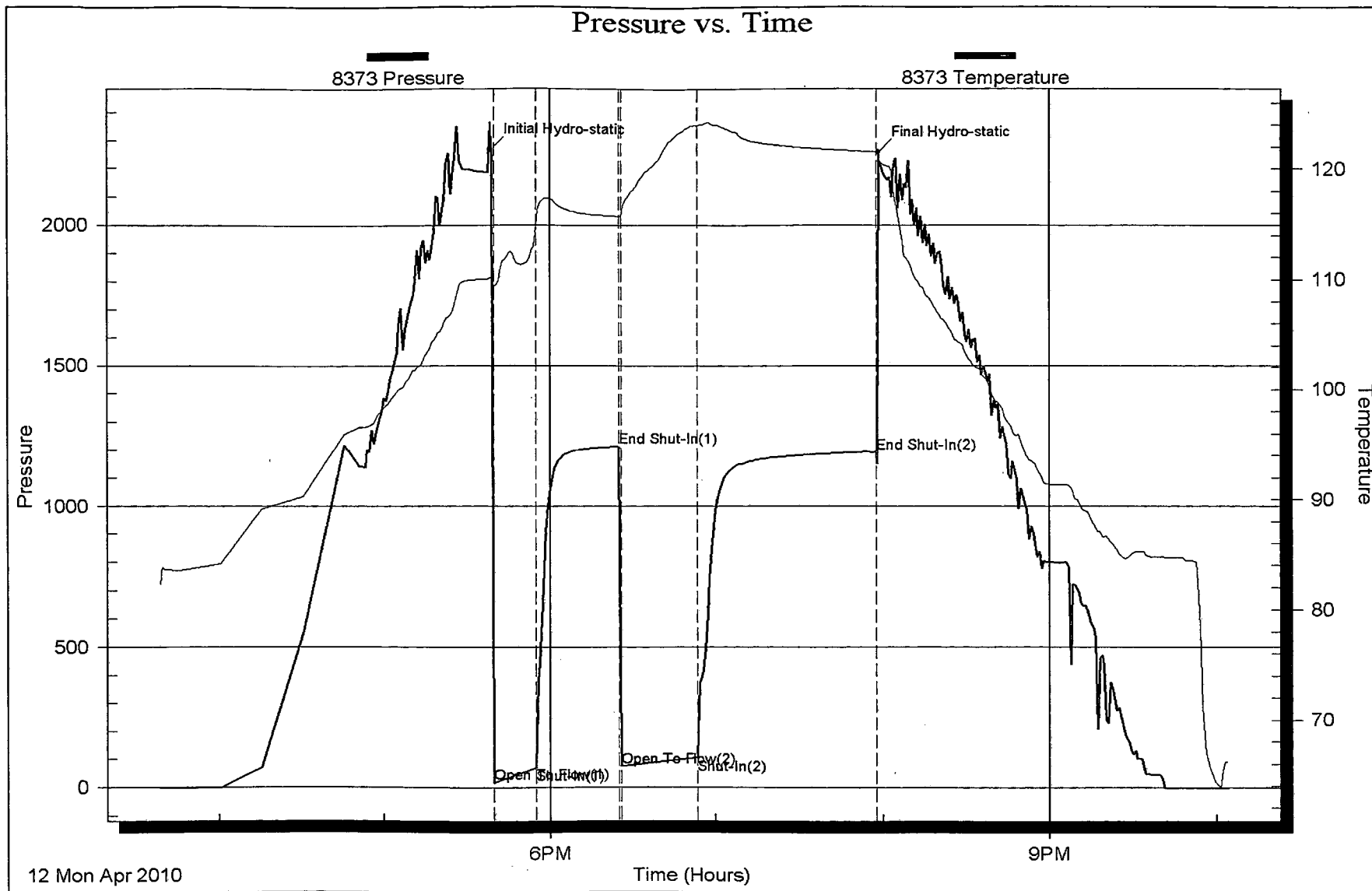
Num Gas Bombs: 0

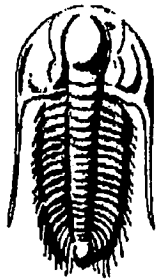
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@73=36000





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering Inc**

562 W State Rd 4
Olmitz KS 67564-8561

ATTN: Tom Larson

35-18s-29w Lane KS

Splitter #2-35

Start Date: 2010.04.14 @ 06:00:54

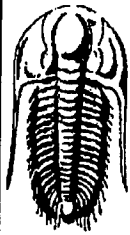
End Date: 2010.04.14 @ 16:34:34

Job Ticket #: 37835 DST #: 7

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 Inc
562 W State Rd 4
Olmitz KS 67564-8561
ATTN: TomLarson

Splitter #2-35

35-18s-29w Lane KS

Job Ticket: 37835

DST#: 7

Test Start: 2010.04.14 @ 06:00:54

GENERAL INFORMATION:

Formation: **Ft. Scott- Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:56:49

Time Test Ended: 16:34:34

Test Type: Conventional Bottom Hole

Tester: Brandon Turley

Unit No: 35

Interval: **4498.00 ft (KB) To 4630.00 ft (KB) (TVD)**

Total Depth: 4630.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2813.00 ft (KB)

2803.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8373 Inside

Press@RunDepth: 25.02 psig @ 4503.00 ft (KB)

Start Date: 2010.04.14

End Date: 2010.04.14

Start Time: 06:00:54

End Time: 16:34:34

Capacity: 8000.00 psig

Last Calib.: 2010.04.14

Time On Btrr: 2010.04.14 @ 12:54:48

Time Off Btrr: 2010.04.14 @ 14:33:04

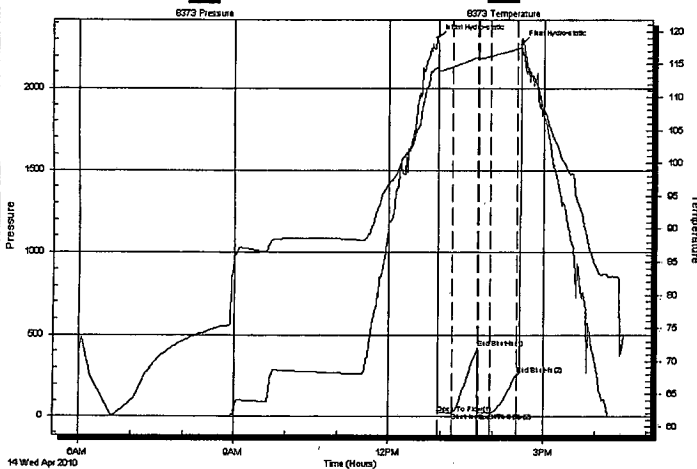
TEST COMMENT: IF: 1/4 blow died to surface.

IS: No return.

FF: No blow.

FS: No return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2306.14	114.46	Initial Hydro-static
3	21.29	113.83	Open To Flow (1)
18	23.29	114.57	Shut-In(1)
48	417.72	116.06	End Shut-In(1)
49	24.11	115.83	Open To Flow (2)
62	25.02	116.25	Shut-In(2)
93	256.33	117.33	End Shut-In(2)
99	2268.42	118.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud 100% m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmritz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37835

DST#: 7

ATTN: Tom Larson

Test Start: 2010.04.14 @ 06:00:54

Tool Information

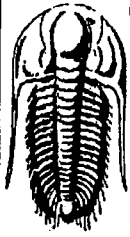
Drill Pipe:	Length: 4318.00 ft	Diameter: 3.80 inches	Volume: 60.57 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.48 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4498.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	136.00 ft			
Tool Length:	160.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4475.00	
Shut In Tool	5.00			4480.00	
Hydraulic tool	5.00			4485.00	
Jars	5.00			4490.00	
Safety Joint	3.00			4493.00	
Packer	5.00			4498.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4502.00	
Stubb	1.00			4503.00	
Recorder	0.00	8373	Inside	4503.00	
Recorder	0.00	6772	Outside	4503.00	
Perforations	2.00			4505.00	
Change Over Sub	1.00			4506.00	
Drill Pipe	122.00			4628.00	
Change Over Sub	1.00			4629.00	
Bullnose	5.00			4634.00	136.00 Anchor Tool

Total Tool Length: 160.00



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Engineering Inc

Splitter #2-35

562 W State Rd 4
Olmitz KS 67564-8561

35-18s-29w Lane KS

Job Ticket: 37835

DST#: 7

ATTN: Tom Larson

Test Start: 2010.04.14 @ 06:00:54

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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud 100% _m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

