

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3842
Name: LARSON ENGINEERING, INC.
Address 1: 562 WEST STATE ROAD 4
Address 2: _____
City: OLMITZ State: KS Zip: 67564 + 8561
Contact Person: TOM LARSON
Phone: (620) 653-7368
CONTRACTOR: License # 33935
Name: H. D. DRILLING, LLC
Wellsite Geologist: RICHARD S DAVIS JR.
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
(Core, WSW, Expl., Cathodic, etc.)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____
8/26/2009 9/6/2009 P+A 9/6/09
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 101-22192-00-00
Spot Description: _____
NW - SE - NE - SW Sec. 12 Twp. 19 S. R. 30 East West
1771 feet from SOUTH Line of Section
2048 feet from WEST Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: LANE
Lease Name: TANNER Well #: 1-12
Field Name: WILDCAT
Producing Formation: _____
Elevation: Ground: 2859' Kelly Bushing: 2869'
Total Depth: 4702' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 267 Feet
Multiple State Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Handwritten: Kelly 01/05/09

Drilling Fluid Management Plan P+A AIT II NCR
(Data must be collected from the Reserve Pit) 1-8-10
Chloride content: 14900 ppm Fluid volume: 1500 bbls
Dewatering method used: ALLOWED TO DRY
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this information shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: Card Lu
Title: SECRETARY/TREASURER Date: 12/23/2009
Subscribed and sworn to before me this 23 day of DEC,
20 09.
Notary Public: Debra J Ludwig
Date Commission Expires: MAY 9, 2012

KCC Office Use ONLY

Letter of Confidentiality Received
If Denied, Yes Date: 01/05/09
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

RECEIVED
DEC 28 2009

KCC WICHITA

DEBRA J. LUDWIG
Notary Public - State of Kansas
My Appt. Expires 5/5/2012

Operator Name: LARSON ENGINEERING, INC. Lease Name: TANNER Well #: 1-12

Sec. 12 Twp. 19 S. R. 30 East West County: LANE

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copes 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: DUAL INDUCTION DUAL COMP POROSITY MICRORESISTIVIY	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>BASE ANHYDRITE</td> <td>2219</td> <td>+650</td> </tr> <tr> <td>HEEBNER</td> <td>3928</td> <td>-1059</td> </tr> <tr> <td>LANSING</td> <td>3974</td> <td>-1105</td> </tr> <tr> <td>STARK</td> <td>4271</td> <td>-1402</td> </tr> <tr> <td>BASE KANSAS CITY</td> <td>4345</td> <td>-1476</td> </tr> <tr> <td>PAWNEE</td> <td>4464</td> <td>-1595</td> </tr> <tr> <td>FORT SCOTT</td> <td>4507</td> <td>-1638</td> </tr> <tr> <td>CHEROKEE SH</td> <td>4529</td> <td>-1660</td> </tr> <tr> <td>MISSISSIPPI</td> <td>4616</td> <td>-1747</td> </tr> </table>	Name	Top	Datum	BASE ANHYDRITE	2219	+650	HEEBNER	3928	-1059	LANSING	3974	-1105	STARK	4271	-1402	BASE KANSAS CITY	4345	-1476	PAWNEE	4464	-1595	FORT SCOTT	4507	-1638	CHEROKEE SH	4529	-1660	MISSISSIPPI	4616	-1747
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CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	20#	267'	CLASS A	170	2% GEL, 3% CC

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

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

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KCC WICHITA

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) <u>D & A</u>	PRODUCTION INTERVAL: _____
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LARSON ENGINEERING INC.

EXPLORATION AND PRODUCTION

562 WEST STATE ROAD 4

OLMITZ, KS 67564-8561

(620) 653-7368

(620) 653-7635 FAX

ACO-1 CONFIDENTIALITY REQUEST

VIA Certified Mail

December 23, 2009

Kansas Corporation Commission
Oil & Gas Conservation Division
130 South Market, Room 2078
Wichita, KS 67202

Re: Tanner 1-12
1771' FSL & 2048' FWL Sec. 12-19S-30W
Lane County, Kansas
API #15-101-22192-00-00

Ladies and Gentlemen:

Enclosed please find the ACO-1 Well Completion Form, with copies of the following:

- ✓ wireline logs (3 rec'd w/ A201)
- ✓ geologist well report
- ✓ drillstem test data
- ✓ cementing tickets (Dnr. #s: 043727; 33385)

Car
12/28/09

We request that all information be held confidential for the maximum time allowable.

If you have questions or require additional information, please call.

Sincerely,

Larson Engineering, Inc.

Carol Larson

Carol Larson
Secretary/Treasurer

Encl.

RECEIVED

DEC 28 2009

KCC WICHITA

ALLIED CEMENTING CO., LLC. 043727

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

SERVICE POINT:
Ness City

DATE <u>9-6-09</u>	SEC. <u>12</u>	TWP. <u>19</u>	RANGE <u>30</u>	CALLED OUT	ON LOCATION <u>2:00pm</u>	JOB START <u>3:00pm</u>	JOB FINISH <u>4:30pm</u>
LEASE <u>Tanner</u>	WELL# <u>1-12</u>	LOCATION <u>Amy 1/2 E 4 3/4 S</u>			COUNTY <u>Lane</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (Circle one)			<u>E INTO</u>				

CONTRACTOR H+D Drilling
 TYPE OF JOB PTA
 HOLE SIZE 7 7/8 T.D. 4700'
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2190'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK	CEMENTER	<u>Andrew</u>
# <u>181</u>	HELPER	<u>Galen</u>
BULK TRUCK		
# <u>341</u>	DRIVER	<u>Randy</u>
BULK TRUCK		
# _____	DRIVER	

REMARKS:

50 sks @ 2190'
80 sks @ 1470'
50 sks @ 250'
50 sks @ 300'
20 sks @ 60'
30 sks Rot hole

Thank you

CHARGE TO: Larson Engineering inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

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.

GOOD JOB! THANKS!
 PRINTED NAME Doug Roberts
 SIGNATURE Doug Roberts

OWNER Same
 CEMENT
 AMOUNT ORDERED 280 sks 60/40 49gel
1/4" FLO-seal

COMMON	<u>168 sks</u>	@	<u>13.65</u>	<u>2293.20</u>
POZMIX	<u>112 sks</u>	@	<u>2.60</u>	<u>851.20</u>
GEL	<u>10 sks</u>	@	<u>20.40</u>	<u>204.00</u>
CHLORIDE		@		
ASC		@		
		@		
<u>FLO-seal</u>	<u>20 sks</u>	@	<u>2.45</u>	<u>171.50</u>
RECEIVED		@		
DEC 28 2009		@		
KCC WICHITA		@		
		@		
HANDLING	<u>293 sks</u>	@	<u>2.10</u>	<u>615.30</u>
MILEAGE	<u>10 sks/mile</u>			<u>1025.50</u>
TOTAL				<u>5160.70</u>

SERVICE

DEPTH OF JOB	<u>2190'</u>		
PUMP TRUCK CHARGE			<u>1170.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>35 miles</u>	@	<u>2.00</u> <u>245.00</u>
MANIFOLD		@	
		@	
		@	
TOTAL <u>1415.00</u>			

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

ALLIED CEMENTING CO., LLC. 33385

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

SERVICE POINT:

Ness City KS

DATE <u>8-26-09</u>	SEC. <u>12</u>	TWP. <u>19</u>	RANGE <u>30</u>	CALLED OUT <u>7:30</u>	ON LOCATION <u>9:00 PM</u>	JOB START <u>12:30 AM</u>	JOB FINISH <u>1:00 AM</u>
LEASE <u>Tanner</u>		WELL # <u>1-12</u>		LOCATION <u>Amy KS Eagle RD</u>		COUNTY <u>hane</u>	STATE <u>KS</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)				<u>4 South East into</u>			

CONTRACTOR H-D OWNER hanson

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>270</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>270</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>16.25 BBbs fresh water</u>	

CEMENT
AMOUNT ORDERED 170 SK CLASS A
3% GEL 2% GEL

COMMON <u>170</u>	@ <u>13.50</u>	<u>2,295.00</u>
POZMIX	@	
GEL <u>3</u>	@ <u>20.25</u>	<u>60.75</u>
CHLORIDE <u>6</u>	@ <u>51.50</u>	<u>309.00</u>
ASC	@	

EQUIPMENT

PUMP TRUCK # <u>181</u>	CEMENTER <u>Wayne-D</u>
	HELPER <u>Randy-D</u>
BULK TRUCK # <u>344-170</u>	DRIVER <u>Alvin R</u>
BULK TRUCK #	DRIVER

<u>RECEIVED</u>	@	
<u>DEC 28 2009</u>	@	
<u>KCC WICHITA</u>	@	
	@	
	@	
HANDLING <u>179</u>	@ <u>2.25</u>	<u>402.75</u>
MILEAGE <u>45 x 179 x .10</u>		<u>805.50</u>
TOTAL		<u>3873.00</u>

REMARKS:

Pipe on bottom Break Circulation
Mix 170 SK Common 3% GEL 2% GEL
Displace 16.25 BBbs fresh water
Cement did circulate
Wash up Rig Down

SERVICE

DEPTH OF JOB <u>270</u>		
PUMP TRUCK CHARGE		<u>991.00</u>
EXTRA FOOTAGE	@	
MILEAGE <u>45</u>	@ <u>7.00</u>	<u>315.00</u>
MANIFOLD	@	
	@	
	@	

TOTAL 1306.00

CHARGE TO: hanson

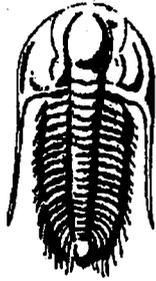
STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd 4
Olmits KS 67564

ATTN: Steve Davis

12-19s-30w Lane KS

Tanner #1-12

Start Date: 2009.09.01 @ 22:33:05

End Date: 2009.09.02 @ 04:49:59

Job Ticket #: 35363 DST #: 1

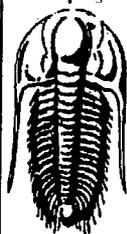
RECEIVED
DEC 28 2009

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

TOOL DIAGRAM

Larson Engineering

Tanner #1-12

562 W State Rd 4
Olmitz KS 67564

12-19s-30w Lane KS

Job Ticket: 35363

DST#: 1

ATTN: Steve Davis

Test Start: 2009.09.01 @ 22:33:05

Tool Information

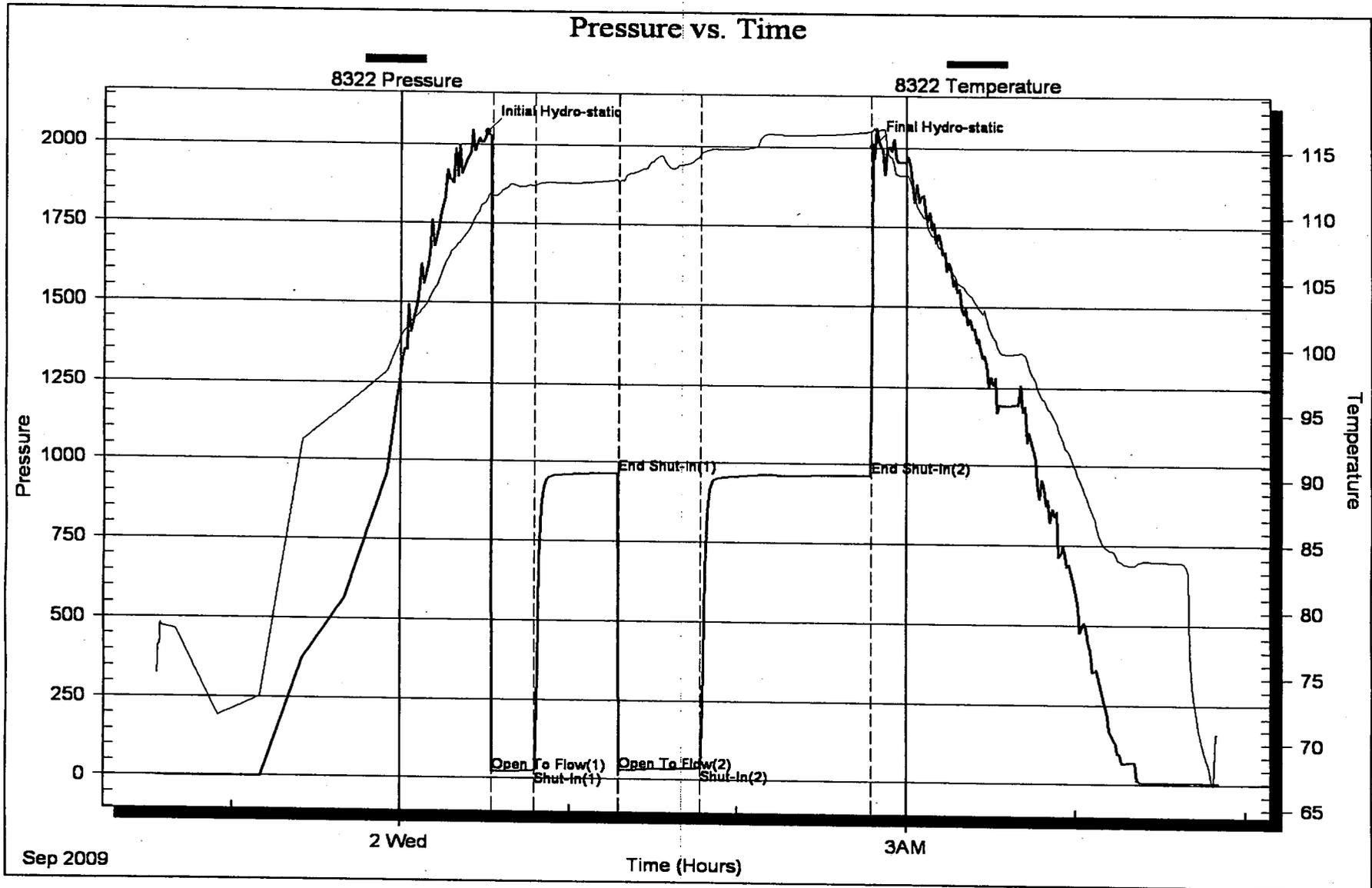
Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 2500.00 lb
Drill Collar:	Length: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	56.60 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4158.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

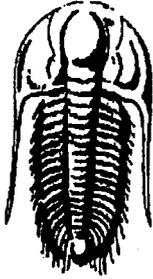
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4131.00	
Shut In Tool	5.00			4136.00	
Hydraulic tool	5.00			4141.00	
Jars	5.00			4146.00	
Safety Joint	3.00			4149.00	
Packer	5.00			4154.00	28.00 Bottom Of Top Packer
Packer	4.00			4158.00	
Stubb	1.00			4159.00	
Recorder	0.00	8322	Inside	4159.00	
Recorder	0.00	6741	Inside	4159.00	
Perforations	24.00			4183.00	
Bullnose	5.00			4188.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd 4
Olmits KS 67564

ATTN: Steve Davis

12-19s-30w Lane KS

Tanner #1-12

Start Date: 2009.09.03 @ 00:56:21

End Date: 2009.09.03 @ 06:47:30

Job Ticket #: 34815 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Printed: 2009.09.10 @ 13:51:54 Page 1

Larson Engineering

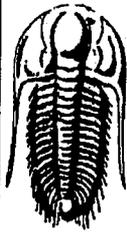
Tanner #1-12

12-19s-30w Lane KS

DST # 2

Middle Creek- L

2009.09.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering

Tanner #1-12

562 W State Rd 4
Olmitz KS 67564

12-19s-30w Lane KS

Job Ticket: 34815

DST#: 2

ATTN: Steve Davis

Test Start: 2009.09.03 @ 00:56:21

Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 bbl	Tool Weight: 1500.00 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: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.74 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4294.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

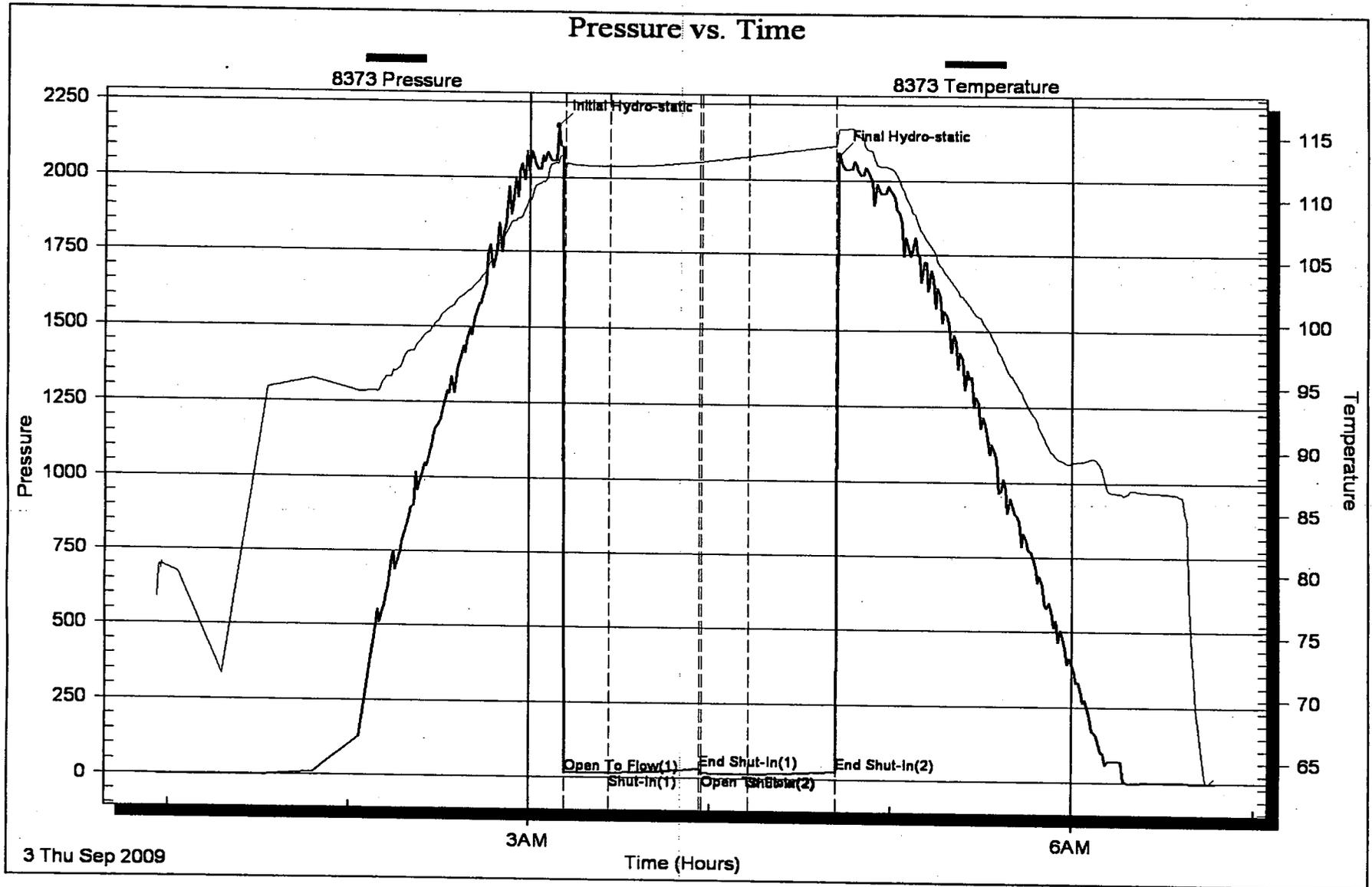
Tool Comments:

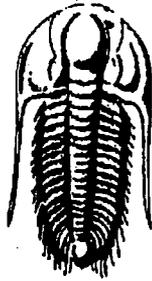
Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4267.00	
Shut In Tool	5.00			4272.00	
Hydraulic tool	5.00			4277.00	
Jars	5.00			4282.00	
Safety Joint	3.00			4285.00	
Packer	5.00			4290.00	28.00 Bottom Of Top Packer
Packer	4.00			4294.00	
Stubb	1.00			4295.00	
Recorder	0.00	6772	Inside	4295.00	
Recorder	0.00	8373	Inside	4295.00	
Perforations	19.00			4314.00	
Bullnose	5.00			4319.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd 4
Olmitz KS 67564

ATTN: Steve Davis

12-19s-30w Lane KS

Tanner #1-12

Start Date: 2009.09.04 @ 01:28:41

End Date: 2009.09.04 @ 07:19:20

Job Ticket #: 34816 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Larson Engineering

Tanner #1-12

12-19s-30w Lane KS

DST # 3

Altamont

2009.09.04



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Larson Engineering
562 W State Rd 4
Olmritz KS 67564

ATTN: Steve Davis

Tanner #1-12
12-19s-30w Lane KS
Job Ticket: 34816 **DST#: 3**
Test Start: 2009.09.04 @ 01:28:41

Tool Information

Drill Pipe:	Length: 4255.00 ft	Diameter: 3.80 inches	Volume: 59.69 bbl	Tool Weight: 1500.00 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: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 85000.00 lb
		Total Volume:	60.45 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4408.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

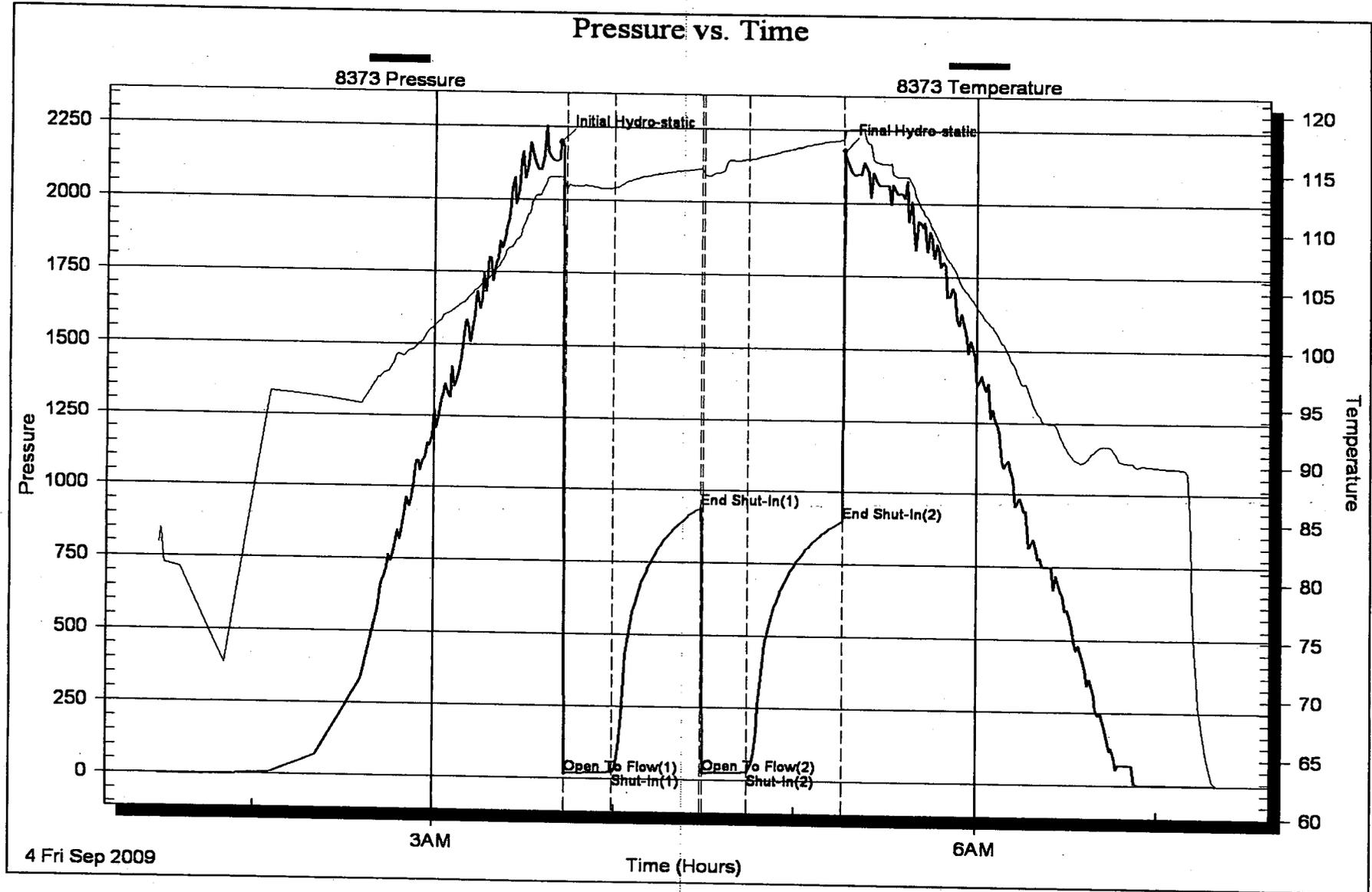
Tool Comments:

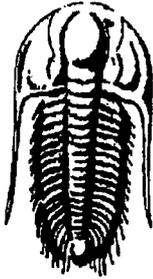
Tool Description

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

Change Over Sub	1.00			4381.00	
Shut In Tool	5.00			4386.00	
Hydraulic tool	5.00			4391.00	
Jars	5.00			4396.00	
Safety Joint	3.00			4399.00	
Packer	5.00			4404.00	28.00 Bottom Of Top Packer
Packer	4.00			4408.00	
Stubb	1.00			4409.00	
Recorder	0.00	6772	Inside	4409.00	
Recorder	0.00	8373	Inside	4409.00	
Perforations	22.00			4431.00	
Bullnose	5.00			4436.00	28.00 Bottom Packers & Anchor

Total Tool Length: 56.00





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Larson Engineering**

562 W State Rd 4
Olmits KS 67564

ATTN: Steve Davis

12-19s-30w Lane KS

Tanner #1-12

Start Date: 2009.09.05 @ 06:34:59

End Date: 2009.09.05 @ 13:18:38

Job Ticket #: 34817 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

TOOL DIAGRAM

Larson Engineering

Tanner #1-12

562 W State Rd 4
Olmitz KS 67564

12-19s-30w Lane KS

ATTN: Steve Davis

Job Ticket: 34817

DST#: 4

Test Start: 2009.09.05 @ 06:34:59

Tool Information

Drill Pipe:	Length: 4319.00 ft	Diameter: 3.80 inches	Volume: 60.58 bbl	Tool Weight: 1500.00 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: 155.00 ft	Diameter: 2.25 inches	Volume: 0.76 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 61.34 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 75000.00 lb
Depth to Top Packer:	4478.00 ft			Final 75000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	118.00 ft			
Tool Length:	142.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4455.00	
Shut In Tool	5.00			4460.00	
Hydraulic tool	5.00			4465.00	
Jars	5.00			4470.00	
Safety Joint	3.00			4473.00	
Packer	5.00			4478.00	24.00 Bottom Of Top Packer
Packer - Shale	4.00			4482.00	
Stubb	1.00			4483.00	
Recorder	0.00	6772	Inside	4483.00	
Recorder	0.00	8373	Inside	4483.00	
Perforations	15.00			4498.00	
Change Over Sub	1.00			4499.00	
Drill Pipe	91.00			4590.00	
Change Over Sub	1.00			4591.00	
Bullnose	5.00			4596.00	118.00 Anchor Tool
Total Tool Length:	142.00				

