



KANSAS CORPORATION COMMISSION 1084289

OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 3842
Name: Larson Engineering, Inc. dba Larson Operating Company
Address 1: 562 W STATE RD 4
Address 2:
City: OLMITZ State: KS Zip: 67564 + 8561
Contact Person: Thomas Larson
Phone: ( 620 ) 653-7368
CONTRACTOR: License # 33935
Name: H. D. Drilling, LLC
Wellsite Geologist: Robert Lewellyn
Purchaser:

Designate Type of Completion:

- Checkboxes for completion types: New Well, Re-Entry, Workover, Oil, WSW, SWD, SLOW, Gas, D&A, ENHR, SIGW, OG, GSW, Temp. Abd., CM (Coal Bed Methane), Cathodic, Other (Core, Expl., etc.)

If Workover/Re-entry: Old Well Info as follows:

Operator:

Well Name:

Original Comp. Date: Original Total Depth:

- Checkboxes for completion details: Deepening, Re-perf., Conv. to ENHR, Conv. to SWD, Conv. to GSW, Plug Back, Commingled, Dual Completion, SWD, ENHR, GSW with Permit # fields

2/29/2012 3/14/2012 3/14/2012
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-101-22354-00-00

Spot Description:

NE SE SW SE Sec. 8 Twp. 19 S. R. 29 East West
629 Feet from North South Line of Section
1405 Feet from East West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- Checkboxes for corner footages: NE, NW, SE, SW

County: Lane

Lease Name: Melita Well #: 1-8

Field Name:

Producing Formation: N/A

Elevation: Ground: 2837 Kelly Bushing: 2844

Total Depth: 4652 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 262 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: Feet

If Alternate II completion, cement circulated from:

feet depth to: w/ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 2200 ppm Fluid volume: 800 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

Quarter Sec. Twp. S. R. East West

County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Checkboxes for office use: Letter of Confidentiality Received, Confidential Release Date, Wireline Log Received, Geologist Report Received, UIC Distribution, ALT I II III Approved by: NAOMI JAMES Date: 06/29/2012



1084289

Operator Name: Larson Engineering, Inc. dba Larson Operating Company Lease Name: Melita Well #: 1-8  
 Sec. 8 Twp. 19 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 stems 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological 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 type="checkbox"/> Yes <input checked="" 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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Dual Induction Dual Comp Porosity Microrelativity	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" type="checkbox"/> New <input 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	12.25	8.625	20	262	Class A	175	2% gel, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD	-			
___ Plug Off Zone	-			

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

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 <i>(Submit ACO-5) (Submit ACO-4)</i> <input checked="" type="checkbox"/> Other (Specify) <u>D &amp; A</u>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Larson Engineering, Inc. dba Larson Operating Company
Well Name	Melita 1-8
Doc ID	1084289

Tops

Anhydrite	2167	+677
Base Anhydrite	2196	+648
Heebner Sh	3928	-1064
Lansing-KC	3969	-1125
Stark Sh	4253	-1409
Base KC	4334	-1490
Marmaton	4367	-1523
Pawnee	4449	-1605
Fort Scott	4496	-1652
Cherokee	4519	-1675
Mississippian	4588	-1744





## Robert C. Lewellyn

*Consulting Petroleum Geologist*

P. O. Box 375  
Kechi, Kansas 67067-0375  
316-518-0495  
boblewellyn@yahoo.com

### GEOLOGICAL REPORT

#### Larson Engineering, Inc.

No. 1-8 Melita  
629' FSL & 1405' FEL Sec. 8-19S-29W  
Lane County, Kansas

CONTRACTOR: HD Drilling, LLC Rig 3  
SPUDDED: February 29, 2012  
DRILLING COMPLETED: March 14, 2012  
SURFACE CASING: 8 5/8" @ 262 KBM/175 sx.  
ELECTRIC LOGS: DIL CNL/CDL MEL  
ELEVATIONS: 2844 KB 2837 GL  
FORMATION TOPS: (Electric Log)

Anhydrite	2167 (+ 677)
Base Anhydrite	2196 (+ 648)
Heebner Shale	3928 (-1064)
Lansing-Kansas City Group	3969 (-1125)
Muncie Creek Shale	4150 (-1306)
Stark Shale	4253 (-1409)
Hushpuckney Shale	4291 (-1447)
Base Kansas City	4334 (-1490)
Marmaton	4367 (-1523)
Altamont	4387 (-1543)
Pawnee	4449 (-1605)
Myrick Station	4771 (-1627)
Fort Scott	4496 (-1652)
Cherokee	4519 (-1675)
Mississippian	4588 (-1744)
Electric Log Total Depth	4652 (-1809)

Samples were examined microscopically from 3800 to Rotary Total Depth. Samples were examined wet and dry and samples from potentially productive zones were viewed under a fluoroscope and checked for oil cut. Following is a description of zones of interest, Drill Stem Tests, etc. For a complete lithologic description of all formations refer to the sample log in the back pages of this report.

Drill Stem Tests have been corrected downhole two feet to correlate with Electric Log measurements.

Lansing-Kansas City Zones:

3969-3975 (A Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and partly chalky, fossiliferous in part, slightly oolitic, very poor intercrystalline porosity, trace of poor interoolitic porosity, no show of oil.

4007-4015 (B Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and partly chalky, trace of oolitic, slightly fossiliferous, trace of very poor intercrystalline porosity, no show of oil, trace of scattered chert, white to light gray, fresh, opaque.

4028-4056 (C/D Zone)

Limestone, cream, chalky with dense to finely crystalline, partly fossiliferous, zone is mostly tight with no shows of oil. Some scattered chert as above.

4058-4973 (E Zone)

Limestone, cream to buff, some brown, dense to finely crystalline, some tan lithographic lime and some cream chalky limestone, zone is mostly tight with a trace of dead stain, some white to light gray fresh chert, no show of live oil.

4080-4093 (F Zone)

Limestone, buff, dense to finely crystalline and partly fossiliferous, trace of very poor intercrystalline and interfossil porosity, scattered traces of dead stain with some gilsonite, no show of live oil.

4095-4098 (G Zone)

Limestone, cream to buff, fine to medium crystalline and partly oolitic, poor oolitic and interoolitic porosity, no show of oil. Lower portion of section is mostly cream chalky and dense limestone, mostly tight with no shows of oil

4165-4174 (H Zone)

Limestone, cream to buff, some tan, dense to finely crystalline and chalky, very poor intercrystalline porosity, rare trace of very poor spotted stain, some dead stain, very slight show of free oil, faint fleeting odor, no fluorescence, very poor cut, zone warrants no further evaluation.

4203-4210 (I Zone)

Limestone, buff, some tan, dense to finely crystalline, some sucrosic, slightly fossiliferous, scattered poor to fair vugular and intercrystalline porosity, some poor interfossil porosity, poor to fair spotted stain, some dead stain, fair to good odor, poor fluorescence, poor to fair cut, some scattered chert, white to light gray, fresh, opaque.

Drill Stem Test No. 1            4184-4214

5-15-30-30; blow off bottom of bucket in four minutes, no blowback; blow off bottom of bucket on second flow in four minutes, no blowback. Recovered 896 feet of saltwater (100% saltwater). ISIP 907# FSIP 907# IFP 34-134# FFP 130-427# IHP 2134# FHP 2090# BHT 126 degrees F.

4231-4236 (J Zone)

Limestone, buff, some tan, dense to finely crystalline and partly oolitic, some poor to fair ooliticastic, interoolitic, and small vug porosity, fair spotted stain, fair to good show of free oil, faint odor, fair fluorescence, fair to good cut.

Drill Stem Test No. 2            4222-4237

5-15-15-30; weak surface blow died in four minutes on first flow period, no blowback; blow did not return on second flow period. Recovered five feet of mud. ISIP 17# FSIP 17# IFP 14-15# FFP 15-15# IHP 2163# FHP 2128# BHT 108 degrees F.

4261-4267 (K Zone)

Limestone, buff to tan, trace of gray, dense to finely crystalline and partly fossiliferous, interval is mostly tight with no shows of oil. Lower portion of zone has trace of poor vugular porosity with scattered dead stain, no show of live oil.

Middle Creek Zone (4293-4298)

Limestone, buff to tan, some brown, dense to finely crystalline and slightly fossiliferous, scattered poor intercrystalline porosity, trace of scattered poor spotted stain, very slight show of free oil, fair odor, poor fluorescence, poor cut.

Drill Stem Test No. 3            4285-4296

5-15-15-30; weak surface blow, died in two minutes, no blowback; blow did not return on second flow period. Recovered five feet of mud. ISIP 25# FSIP 186# IFP 13-14# FFP 14-15# IHP 2174# FHP 2129# BHT 114 degrees F.

4302-4307 (L Zone)

Limestone, buff to tan, some brown, dense to finely crystalline, slightly fossiliferous, some scattered poor to fair small vug and intercrystalline porosity, poor spotted stain, very slight show of free oil, faint fleeting odor, poor fluorescence, poor cut.

Drill Stem Test No. 4            4294-4305

5-15-15-30; weak surface blow throughout first flow period, no blowback; blow did not return on second flow. Recovered five feet of mud with oil spots. ISIP 38# FSIP 42# IFP 16-17# FFP 17-18# IHP 2176# FHP 2238# BHT 107 degrees F.

4307-4314 (L Zone)

Limestone, buff to tan and brown, dense to finely crystalline, some slightly oolitic, scattered small vug and intercrystalline porosity, poor to fair spotted stain, slight show of free oil, faint to fair odor, poor to

fair fluorescence, fair cut, some gray oolitic limestone with black oolites.

Drill Stem Test No. 5      4304-4314      Misrun, packer failure, recovered 200 feet of mud.

Drill Stem Test No. 6      4286-4314

5-15-15-30; weak surface blow throughout first flow period, no blowback; blow did not return on second flow. Recovered five feet of mud. ISIP 59# FSIP 204# IFP 16-17# FFP 17-17# IHP 2191# FHP 2165# BHT 114 degrees F.

4314-4334 (Lower L Zone)

Limestone, buff to tan and gray, dense to finely crystalline, some gray oolitic with black oolites, some dense-oolitic limestone, some scattered pyrite, interval is mostly tight with trace of very poor small vug porosity, no show of oil.

4334-4367 (Pleasanton Zone)

This interval consisted of limestone, cream to buff, dense to finely crystalline and chalky, mostly tight with a trace of very poor vugular and intercrystalline porosity, trace of very poor spotted stain with some scattered dead stain, no free oil, no odor, no fluorescence, no cut.

4367-4387 (Marmaton Zones)

Limestone, buff to tan and brown, dense to finely crystalline, some scattered oolitic, partly fossiliferous, poor scattered vugular and interfossil porosity, poor spotted stain, very slight show of free oil, faint odor, poor fluorescence, poor cut.

4406-4410 (Altamont "A" Zone)

Limestone, cream to buff, finely crystalline and fossiliferous, some scattered chalky, poor to fair intercrystalline and interfossil porosity, some poor vugular porosity, poor to fair spotted stain, very slight show of free oil, fair odor, fair fluorescence, poor to fair cut

Drill Stem Test No. 7      4322-4442

5-15-30-60; built to one inch blow on first flow period, no blowback; built to 1 1/8<sup>th</sup> inch blow on second flow period, no blowback. Recovered 80 feet of mud with oil spots. ISIP 1107# FSIP 951# IFP 70-81# FFP 82-115# IHP 2209# FHP 2184# BHT 116 degrees F.

4449-4470 (Pawnee Zone)

Limestone, cream, some buff to tan, dense to finely crystalline, slightly fossiliferous, poor intercrystalline porosity, rare trace of poor spotted stain, very slight show of free oil, faint to fair odor, poor fluorescence, poor cut.

4471-4492 (Myrick Station Zone)

Limestone, buff to tan and brown, dense to finely crystalline, some scattered medium crystalline, scattered poor intercrystalline porosity, poor spotted stain, fair show of straw colored free oil, faint odor, poor fluorescence, poor cut, porosity zone is thin.

4496-4519 (Fort Scott Zone)

Limestone, buff to tan, dense to finely crystalline and fossiliferous, scattered oolitic and dense oolitic, poor vugular and intercrystalline porosity, poor to fair spotted stain, show of free oil, faint to fair odor, poor fluorescence, poor cut.

Drill Stem Test No. 8            4445-4542

5-15-30-60; blow off bottom of bucket in 30 seconds, built to three inch blowback; built to 3 1/8" blow, no blowback. Recovered 2230 feet of mud. ISIP 1300# FSIP 1365# IFP 935-946# FFP 939-956# IHP 2262# FHP 2215# BHT 113 degrees F. This drill stem test was a misrun because of a hole in the drill pipe.

Drill Stem Test No. 9            4420-4542

5-15-30-60; built to one inch blow on first flow, no blowback; built to 1 1/4" blow on second flow, no blowback. Recovered 60 feet of mud. ISIP 1160# FSIP 1104# IFP 67-73# FFP 77-100# IHP 2284# FHP 2200# BHT 114 degrees F.

4551-4577 (Johnson Zone)

Limestone, buff to tan to brown, dense to finely crystalline, fossiliferous, scattered poor to fair intercrystalline porosity, some poor vugular porosity, poor to fair spotted stain, show of free oil, fair to good odor; poor to fair fluorescence, fair cut.

Drill Stem Test No. 10        4508-4577

15-30-15-30; weak surface blow throughout first flow period, no blowback; blow did not return on second flow period. Recovered five feet of mud. ISIP 247# FSIP 72# IFP 17-19# FFP 20-21# IHP 2213# FHP 2171# BHT 110 degrees F.

4588-4614 (Mississippi Lime Zones)

Limestone, cream to buff, some tan, dense to finely crystalline, some chalky, brittle, soft in part, zone is mostly tight with no shows of oil.

4614-4652 (Mississippi Dolomite Zone)

Dolomite, buff to tan, fine to medium crystalline, partly fossiliferous, scattered poor to fair intercrystalline porosity, no show of oil.

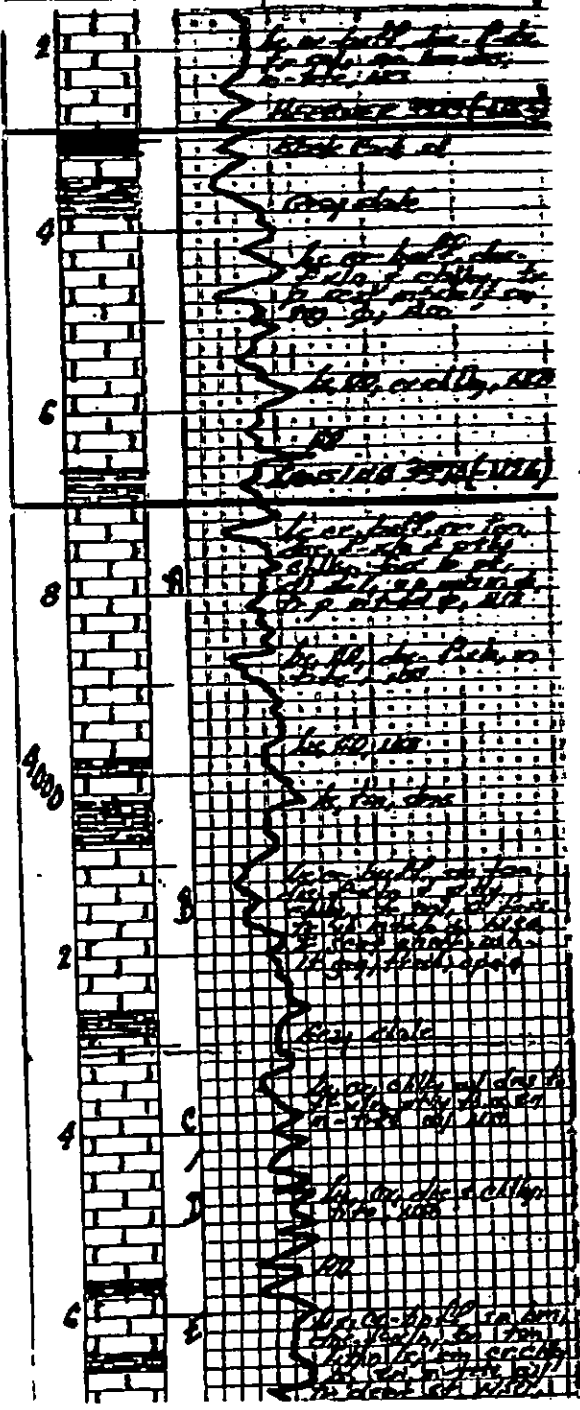
4652            Electric Log Total Depth

Conclusions and Recommendations:

Sample examination, drill stem testing, and electric logging failed to reveal any zones of possible commercial production of oil or gas. The decision was made, therefore, to plug and abandon the No. 1-8 Melita.

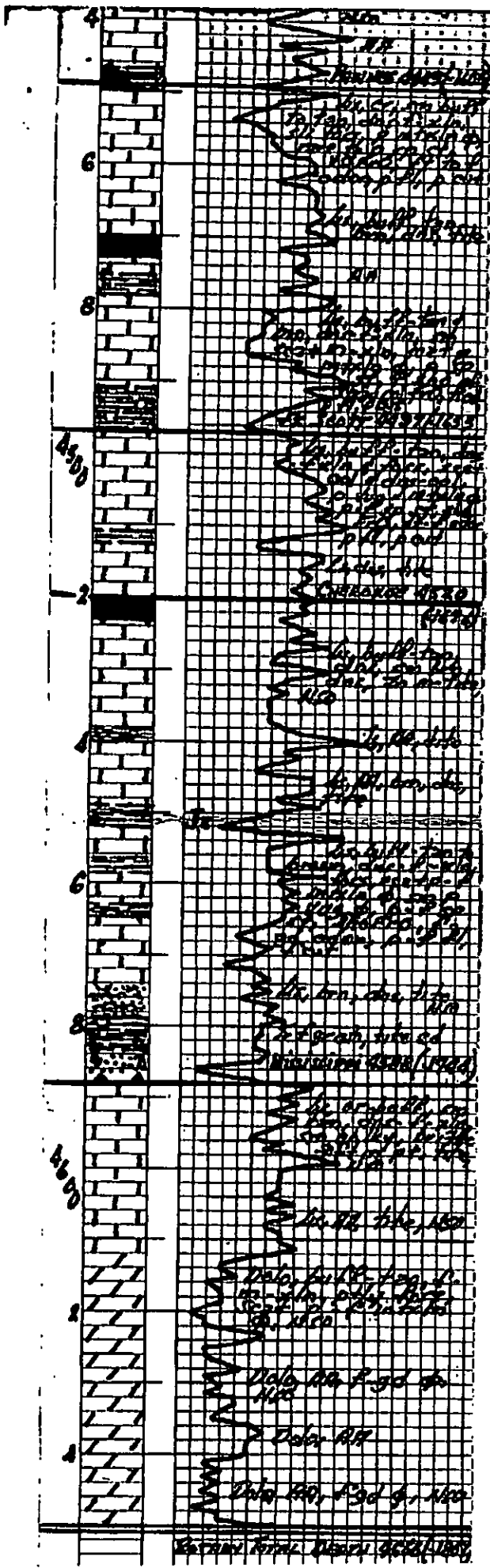
Robert C. Lewellyn  
Petroleum Geologist

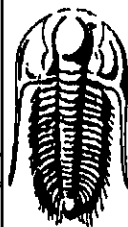
STATE <b>KANSAS</b>	COMPANY <b>JARSON ENGINEERING, Inc.</b>
COUNTY <b>LANE</b>	FARM <b>Malira</b>
BLOCK	WELL NO. <b>1-8</b>
SEC. <b>8</b>	SURVEY <b>679' ECL + 1405' ECL</b>
<b>19S 29N</b>	TOTAL DEPTH <b>4650</b>
	CONTRACTOR <b>HD Drilling, LLC</b>
	COMMENCED <b>02-29-2012</b>
	COMPLETED <b>03-14-2012</b>
ALTIITUDE <b>2844 KB</b>	REMARKS
PRODUCTION <b>D &amp; A</b>	<b>Robert C. Lewallen - Geol.</b>
CASING RECORD	
<b>8 3/8 @ 262 KBM / 175' sx.</b>	











**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmits Ks 67564

Mellita #1-8

Job Ticket: 45116

DST#: 1

ATTN: Bob Lewellyn

Test Start: 2012.03.06 @ 10:53:15

### GENERAL INFORMATION:

Formation: "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:06:30

Time Test Ended: 16:52:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 48

Interval: 4182.00 ft (KB) To 4212.00 ft (KB) (TVD)

Reference Elevations: 2844.00 ft (KB)

Total Depth: 4212.00 ft (KB) (TVD)

2837.00 ft (CF)

Hole Diameter: 7.88 Inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6668

Outside

Press@RunDepth: 427.71 psig @ 4183.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.06

End Date:

2012.03.06

Last Calib.:

2012.03.06

Start Time: 10:53:15

End Time:

16:52:15

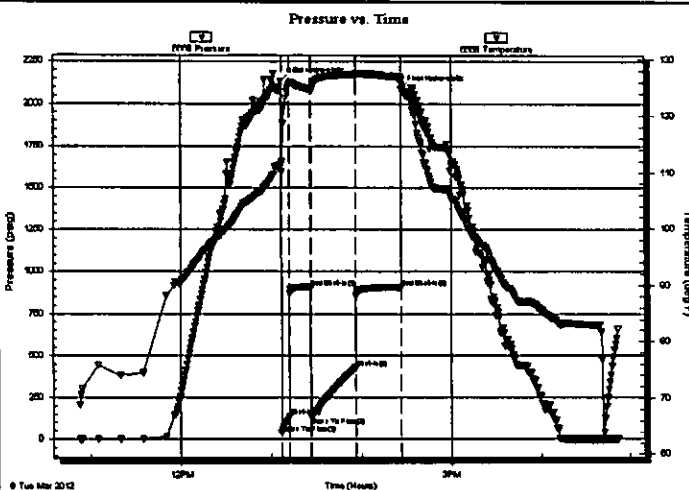
Time On Btrr:

2012.03.06 @ 13:06:15

Time Off Btrr:

2012.03.06 @ 14:26:45

TEST COMMENT: IF:BOB in 4 min.  
IS:No return blow  
FF:BOB in 4 min.  
FS:No return blow



### PRESSURE SUMMARY

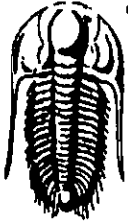
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2134.04	111.23	Initial Hydro-static
1	34.86	110.15	Open To Flow (1)
6	134.69	125.58	Shut-in(1)
20	907.71	124.68	End Shut-in(1)
20	130.25	124.27	Open To Flow (2)
50	427.71	127.26	Shut-in(2)
80	907.27	126.91	End Shut-in(2)
81	2090.03	126.36	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
896.00	sw 100% sw	11.18

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

**Melita #1-8**

Job Ticket: 45116

DST#: 1

ATTN: Bob Law ellyn

Test Start: 2012.03.06 @ 10:53:15

### 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:

24000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
896.00	sw 100% sw	11.184

Total Length: 896.00 ft      Total Volume: 11.184 bbl

Num Fluid Samples: 0

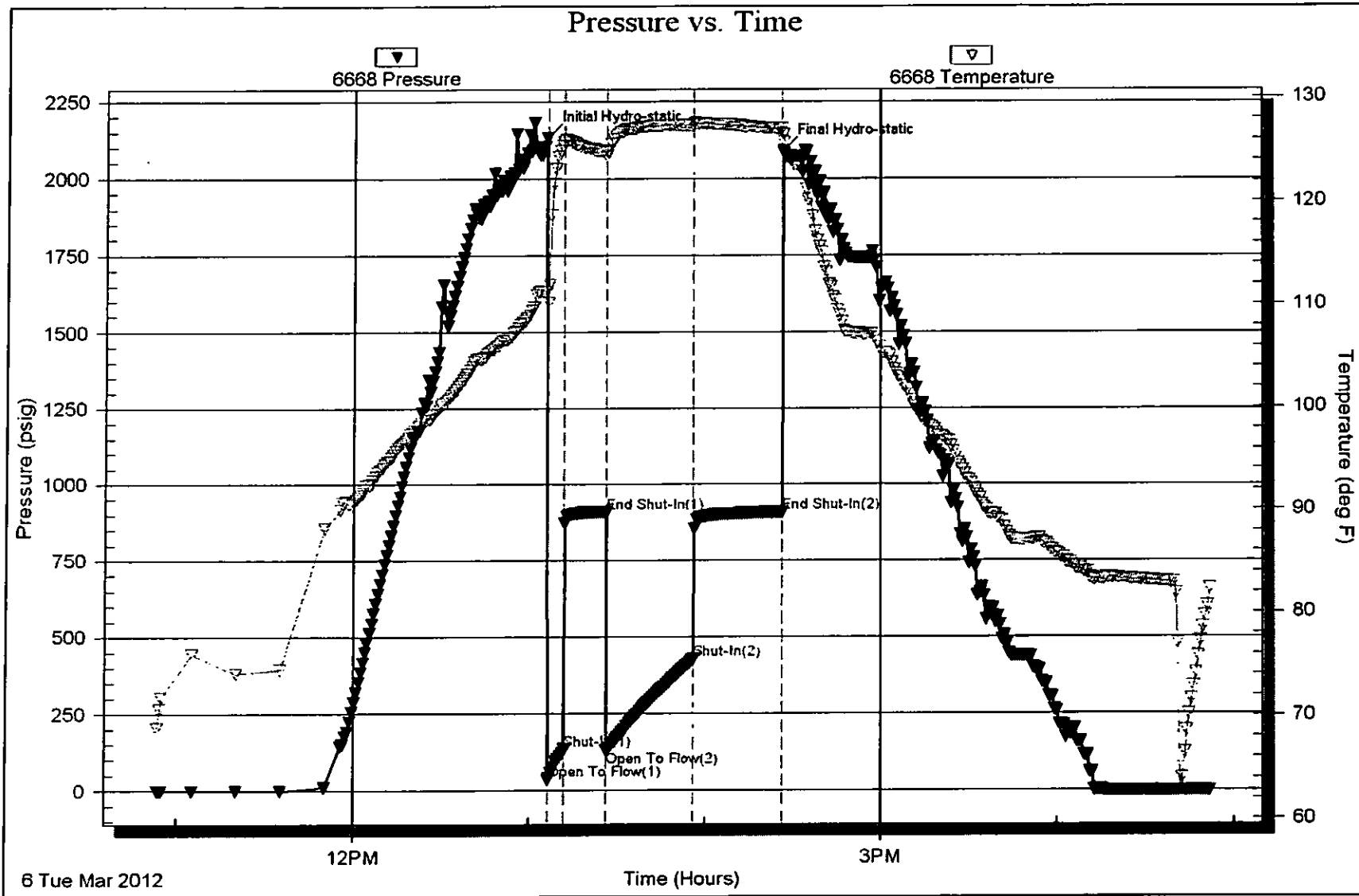
Num Gas Bombs: 0

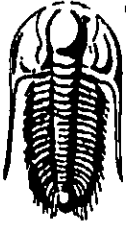
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .275@82.2\*=24,000 ppm





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Ohriz Ks 67564

Melita #1-8

Job Ticket: 45117

DST#: 2

ATTN: Bob Lew ellyn

Test Start: 2012.03.06 @ 03:09:15

### GENERAL INFORMATION:

Formation: "J"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:12:30

Time Test Ended: 08:19:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4220.00 ft (KB) To 4235.00 ft (KB) (TVD)

Reference Elevations: 2844.00 ft (KB)

Total Depth: 4235.00 ft (KB) (TVD)

2837.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6668

Outside

Press@RunDepth: 15.31 psig @ 4221.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.06

End Date:

2012.03.06

Last Calib.:

2012.03.07

Start Time:

03:09:15

End Time:

08:19:30

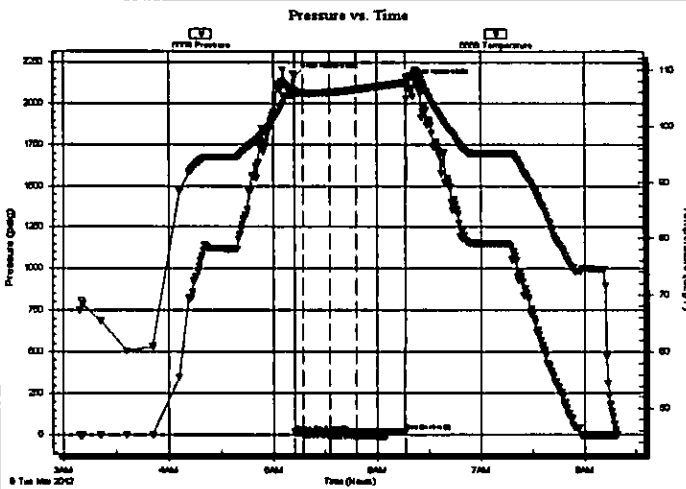
Time On Btm:

2012.03.06 @ 05:12:15

Time Off Btm:

2012.03.06 @ 06:17:00

TEST COMMENT: IF:Weak surface blow that died in 4 min.  
IS:No return blow  
FF:No blow  
FS:No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2163.42	106.40	Initial Hydro-static
1	14.79	105.86	Open To Flow (1)
5	15.82	105.88	Shut-In(1)
20	17.66	105.99	End Shut-In(1)
21	15.46	106.00	Open To Flow (2)
36	15.31	106.50	Shut-In(2)
64	17.27	107.73	End Shut-In(2)
65	2128.69	108.73	Final Hydro-static

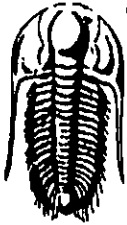
### Recovery

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

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Otritz Ks 67564

**Melita #1-8**

Job Ticket: 45117

**DST#: 2**

ATTN: Bob Lew ellyn

Test Start: 2012.03.06 @ 03:09:15

## 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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in<sup>2</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 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

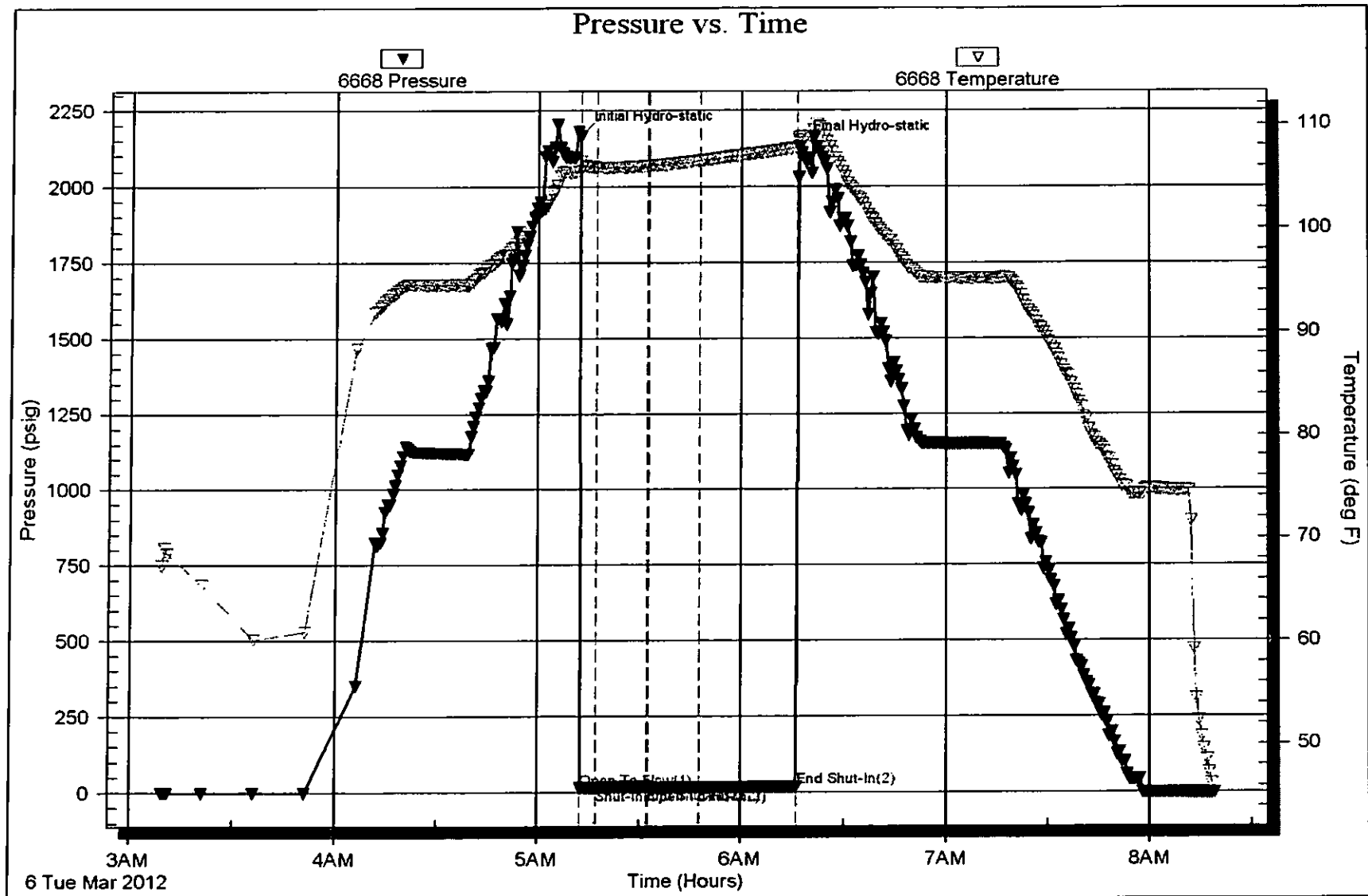
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Otritz Ks 67564

Melita #1-8

Job Ticket: 45118

DST#: 3

ATTN: Bob Lewellyn

Test Start: 2012.03.07 @ 22:33:15

### GENERAL INFORMATION:

Formation: **Middle Creek**

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

Time Tool Opened: 00:49:45

Time Test Ended: 04:01:00

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Mike Roberts**

Unit No: **48**

Interval: **4283.00 ft (KB) To 4294.00 ft (KB) (TVD)**

Reference Elevations: **2844.00 ft (KB)**

Total Depth: **4294.00 ft (KB) (TVD)**

**2837.00 ft (CF)**

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

KB to GR/CF: **7.00 ft**

Serial #: **6668**

Outside

Press@RunDepth: **15.86 psig @ 4284.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.03.07**

End Date: **2012.03.08**

Last Calib.: **2012.03.08**

Start Time: **22:33:15**

End Time: **04:01:00**

Time On Btrm: **2012.03.08 @ 00:49:30**

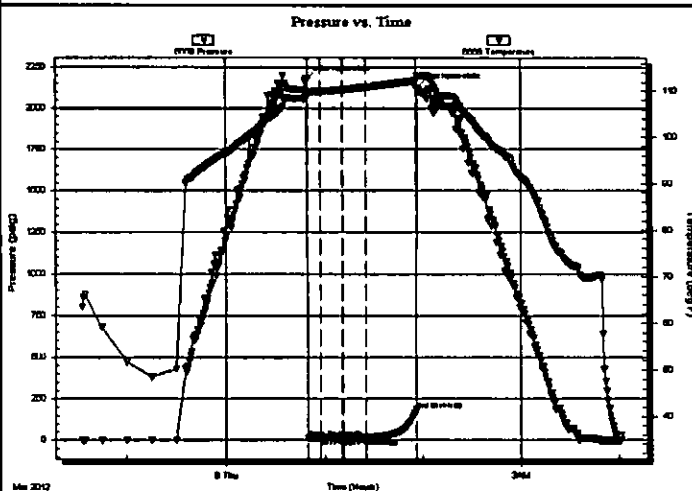
Time Off Btrm: **2012.03.08 @ 01:56:45**

TEST COMMENT: IF:Weak surface blow died in 2 min.

IS:No return blow

FF:No blow

FS:No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2174.24	109.63	Initial Hydro-static
1	13.71	108.88	Open To Flow (1)
8	14.54	109.96	Shut-In(1)
22	25.57	110.32	End Shut-In(1)
22	14.43	110.34	Open To Flow (2)
36	15.86	110.89	Shut-In(2)
67	186.31	112.22	End Shut-In(2)
68	2129.09	113.35	Final Hydro-static

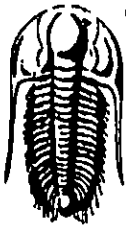
### Recovery

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

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Olmitz Ks 67564

**Melita #1-8**

Job Ticket: 45118

**DST#: 3**

ATTN: Bob Lewellyn

Test Start: 2012.03.07 @ 22:33:15

### 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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	mud 100%	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbf

Num Fluid Samples: 0

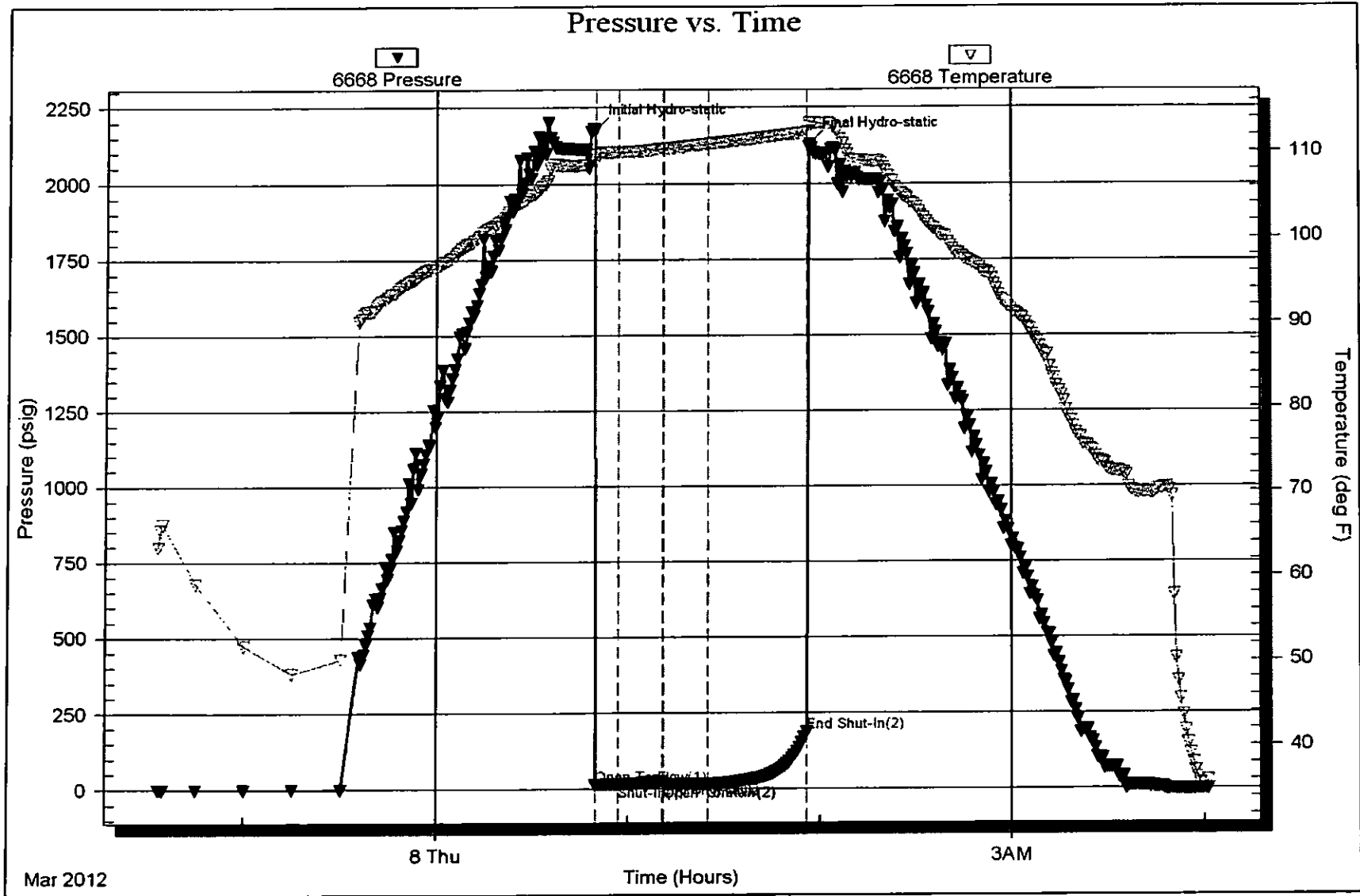
Num Gas Bombs: 0

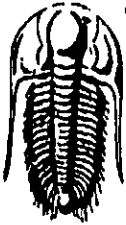
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

Mellita #1-8

Job Ticket: 45119

DST#: 4

ATTN: Bob Lew ellyn

Test Start: 2012.03.08 @ 12:51:15

### GENERAL INFORMATION:

Formation: "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:15

Time Test Ended: 17:18:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4292.00 ft (KB) To 4303.00 ft (KB) (TVD)

Reference Elevations: 2844.00 ft (KB)

Total Depth: 4292.00 ft (KB) (TVD)

2837.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

### Serial #: 8358

Press@RunDepth: 18.79 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.08

End Date: 2012.03.08

Last Calib.: 2012.03.08

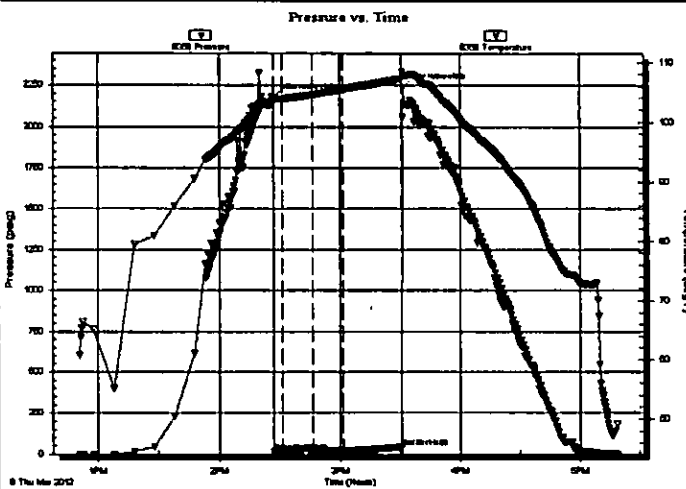
Start Time: 12:51:15

End Time: 17:18:45

Time On Btm: 2012.03.08 @ 14:27:00

Time Off Btm: 2012.03.08 @ 15:31:45

TEST COMMENT: IF:Weak surface blow  
IS:No return blow  
FF:No blow  
FS:No return blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.27	103.87	Initial Hydro-static
1	16.79	103.47	Open To Flow (1)
5	17.91	103.90	Shut-In(1)
20	38.63	104.54	End Shut-In(1)
20	17.71	104.57	Open To Flow (2)
35	18.79	105.48	Shut-In(2)
64	42.52	107.17	End Shut-In(2)
65	2238.42	107.84	Final Hydro-static

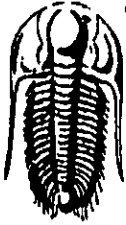
### Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud with oil spots	0.02

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Olmritz Ks 67564

**Melita #1-8**

Job Ticket: 45119

**DST#: 4**

ATTN: Bob Lew ellyn

Test Start: 2012.03.08 @ 12:51:15

**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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	mud w ith oil spots	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

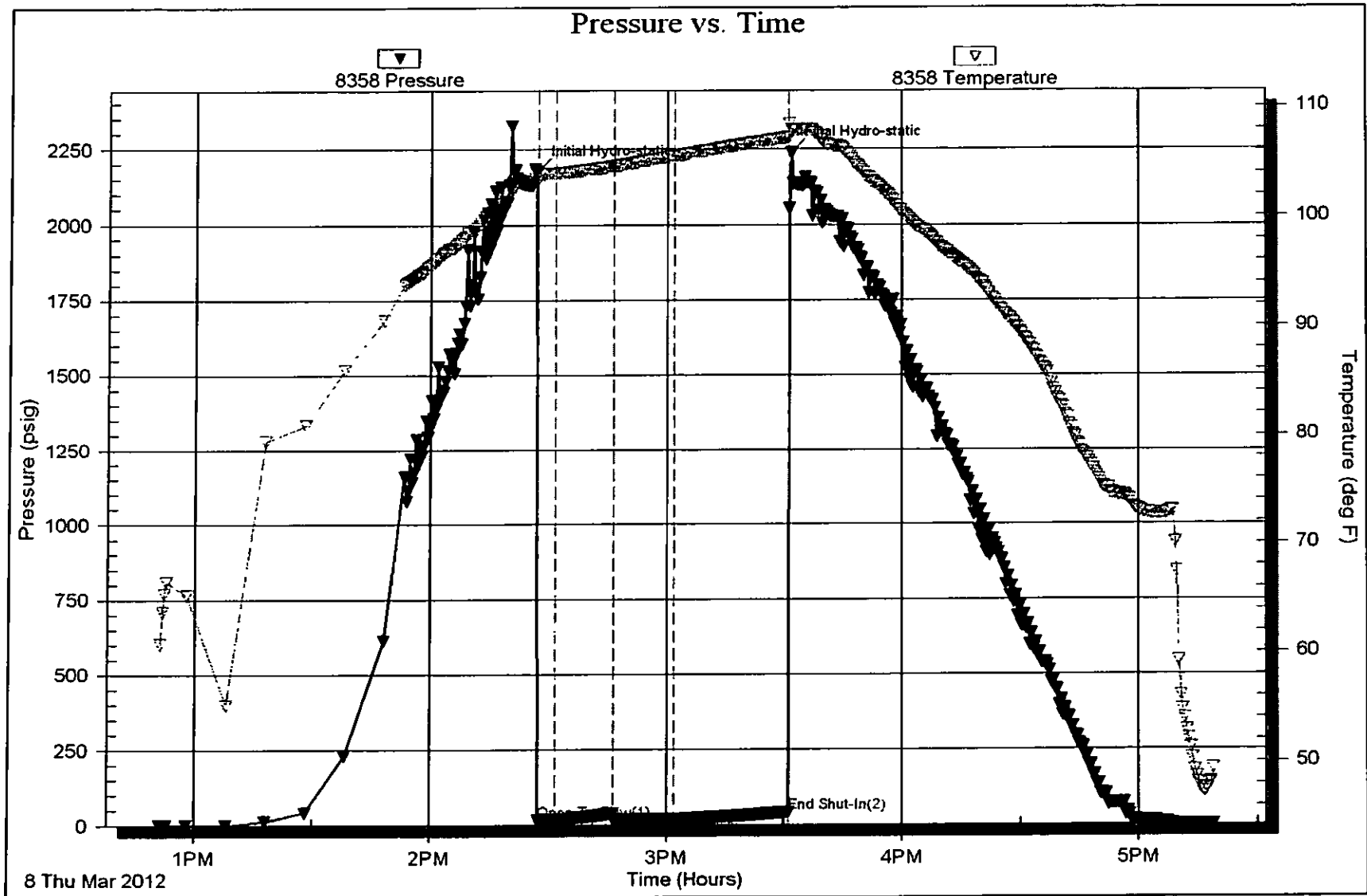
Num Gas Bombs: 0

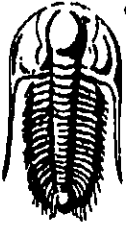
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

**Melita #1-8**

Job Ticket: 45120

**DST#: 5**

ATTN: Bob Lew ellyn

Test Start: 2012.03.08 @ 02:55:00

## GENERAL INFORMATION:

Formation: "L"

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 07:38:15

Interval: 4302.00 ft (KB) To 4312.00 ft (KB) (TVD)

Total Depth: 4312.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Raset)

Tester: Mike Roberts

Unit No: 48

Reference Elevations: 2844.00 ft (KB)

2837.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6668

Outside

Press@RunDepth: psig @ 4303.00 ft (KB)

Start Date: 2012.03.08

End Date:

2012.03.08

Capacity: 8000.00 psig

Last Calib.: 2012.03.09

Start Time: 02:55:15

End Time:

07:38:15

Time On Btmr 2012.03.08 @ 05:05:15

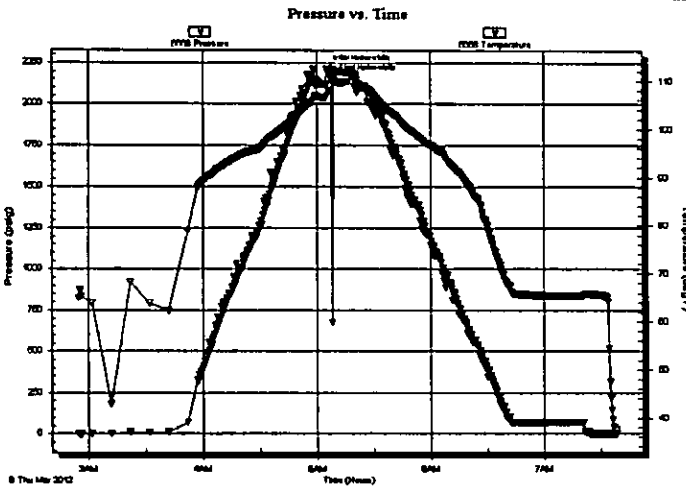
Time Off Btmr 2012.03.08 @ 05:08:45

TEST COMMENT: IF:PACKER FAILURE

IS:

FF:

FS:



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.12	106.58	Initial Hydro-static
4	2156.44	112.56	Final Hydro-static

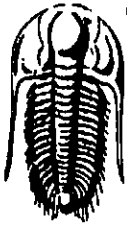
## Recovery

Length (ft)	Description	Volume (bbl)
200.00	mud 100% mud	1.42

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Olmitz Ks 67564

**Mellita #1-8**

Job Ticket: 45120

**DST#: 5**

ATTN: Bob Lew ellyn

Test Start: 2012.03.08 @ 02:55:00

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
200.00	mud 100% mud	1.421

Total Length: 200.00 ft

Total Volume: 1.421 bbl

Num Fluid Samples: 0

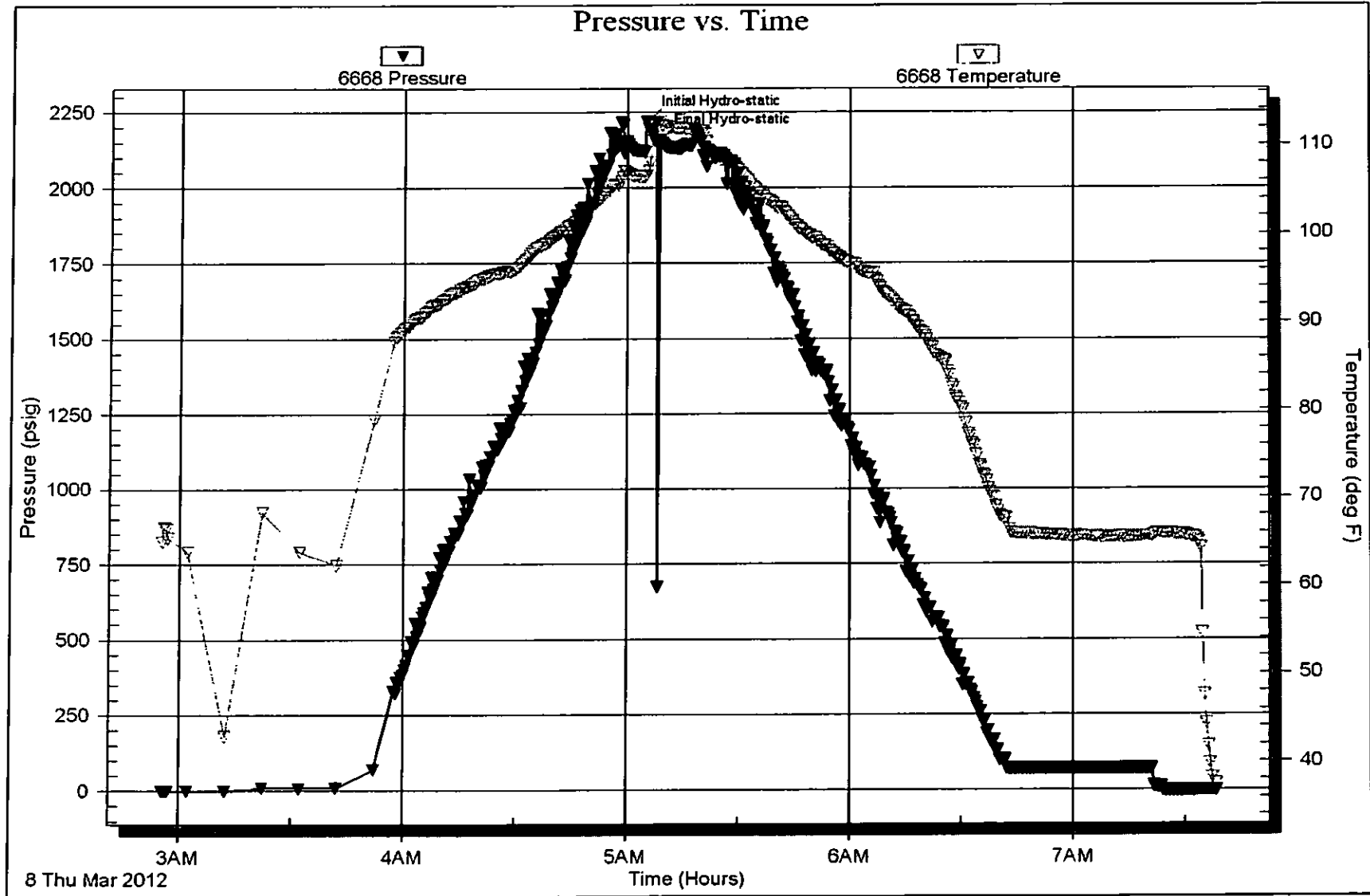
Num Gas Bombs: 0

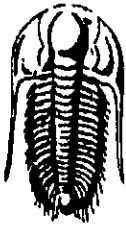
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmritz Ks 67564

**Melita #1-8**

Job Ticket: 45121

DST#: 6

ATTN: Bob Lew ellyn

Test Start: 2012.03.09 @ 08:04:15

## GENERAL INFORMATION:

Formation: 'L'

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:34:30

Time Test Ended: 12:23:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 48

Interval: 4284.00 ft (KB) To 4312.00 ft (KB) (TVD)

Reference Elevations: 2844.00 ft (KB)

Total Depth: 4312.00 ft (KB) (TVD)

2837.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6668

Outside

Press@RunDepth: 17.45 psig @ 4285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.03.09

End Date: 2012.03.09

Last Calib.: 2012.03.09

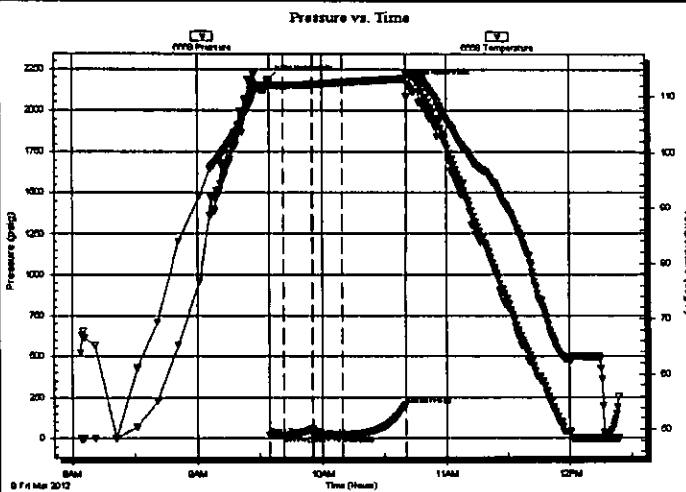
Start Time: 08:04:15

End Time: 12:23:45

Time On Btmr: 2012.03.09 @ 09:34:15

Time Off Btmr: 2012.03.09 @ 10:41:15

TEST COMMENT: IF:Weak surface blow  
IS:No return blow  
FF:No blow  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.42	112.53	Initial Hydro-static
1	16.58	111.93	Open To Flow (1)
7	17.19	112.03	Shut-in(1)
21	59.60	112.21	End Shut-in(1)
22	17.00	112.22	Open To Flow (2)
36	17.45	112.62	Shut-in(2)
66	204.14	113.25	End Shut-in(2)
67	2165.59	114.00	Final Hydro-static

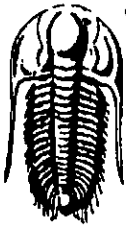
## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

Mellita #1-8

Job Ticket: 45121

DST#: 6

ATTN: Bob Lew ellyn

Test Start: 2012.03.09 @ 08:04:15

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1600.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	mud 100%m	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

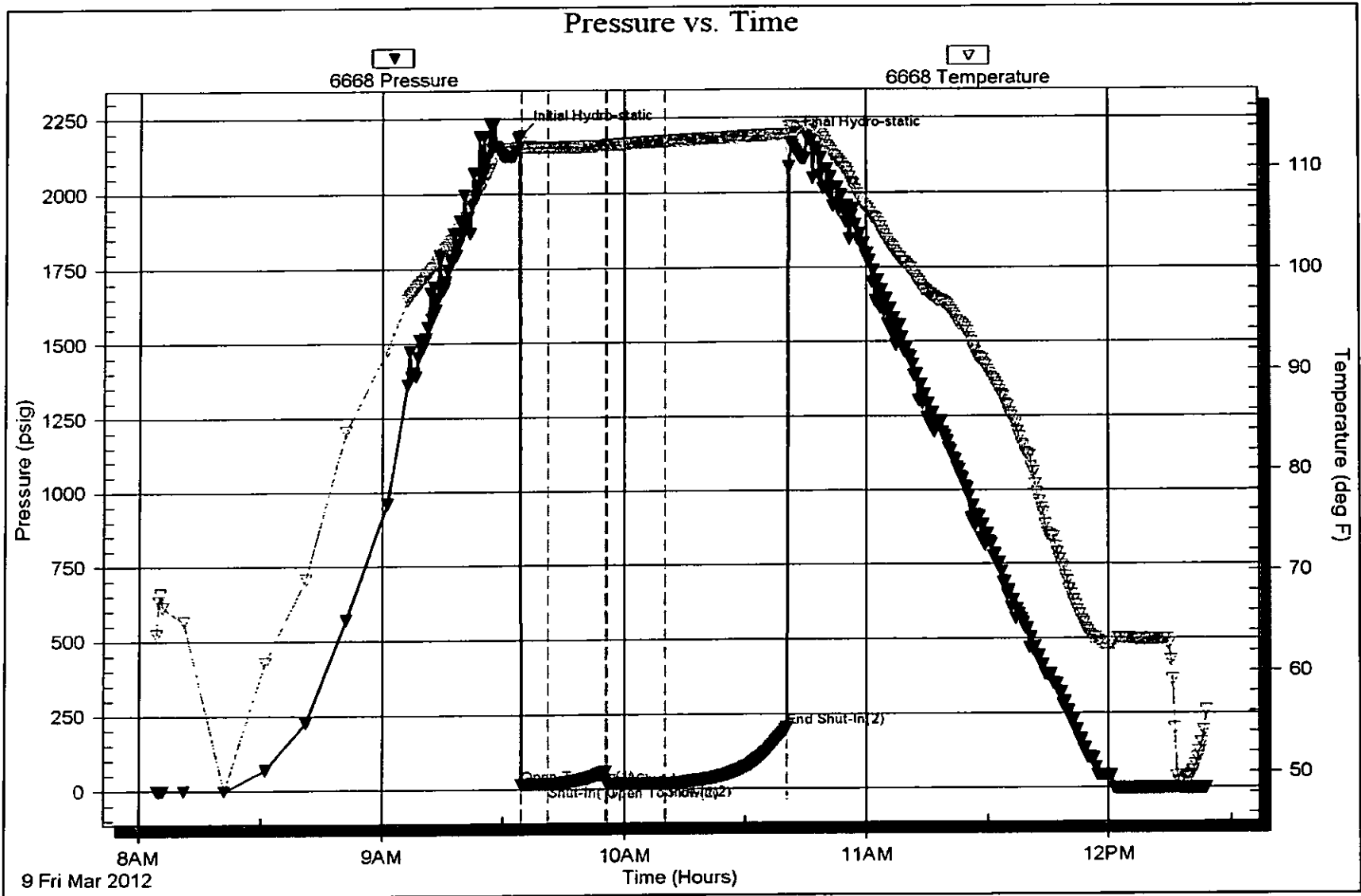
Num Gas Bombs: 0

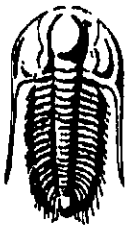
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Larson Engineering, Inc.  
 562 West St. Rd. #4  
 Olmitz Ks 67564  
 ATTN: Bob Lew ellyn

**8-19s-29w Lane Co KS**  
**Melita #1-8**  
 Job Ticket: 45122      **DST#: 7**  
 Test Start: 2012.03.09 @ 09:36:00

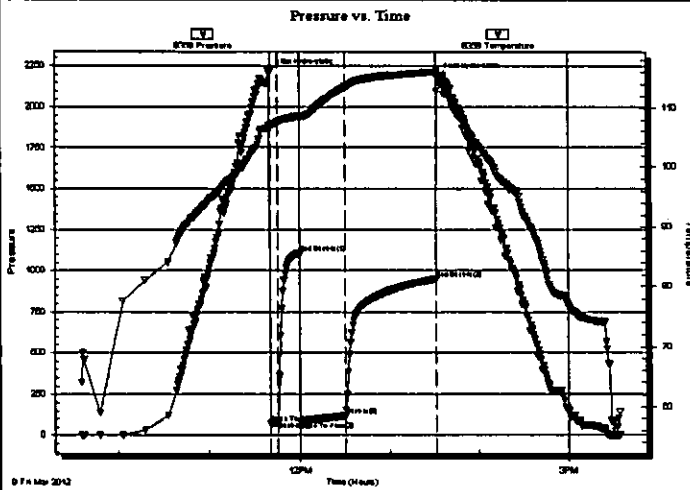
**GENERAL INFORMATION:**

Formation: **Pleasanton-Marmaton-**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 11:40:30  
 Time Test Ended: 15:34:15  
 Interval: **4320.00 ft (KB) To 4440.00 ft (KB) (TVD)**  
 Total Depth: **4440.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Mike Roberts**  
 Unit No: **48**  
 Reference Elevations: **2844.00 ft (KB)**  
**2837.00 ft (CF)**  
 KB to GR/CF: **7.00 ft**

**Serial #: 8358**      **Inside**  
 Press@RunDepth: **117.43 psig @ 4415.00 ft (KB)**  
 Start Date: **2012.03.09**      End Date: **2012.03.09**  
 Start Time: **09:36:15**      End Time: **15:34:15**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2012.03.11**  
 Time On Btm: **2012.03.09 @ 11:40:15**  
 Time Off Btm: **2012.03.09 @ 13:32:15**

**TEST COMMENT:** IF: Built to 1" blow  
 IS: No return blow  
 FF: Built to 1 1/8" blow  
 FS: No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2209.52	107.22	Initial Hydro-static
1	70.51	106.77	Open To Flow (1)
6	81.96	107.66	Shut-in(1)
20	1107.41	108.67	End Shut-in(1)
21	82.98	108.44	Open To Flow (2)
51	117.43	113.53	Shut-in(2)
112	951.27	116.11	End Shut-in(2)
112	2184.45	115.62	Final Hydro-static

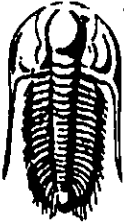
**Recovery**

Length (ft)	Description	Volume (bbl)
80.00	mud with oil spots	0.39

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Larson Engineering, Inc.  
562 West St. Rd. #4  
Olmritz Ks 67564  
ATTN: Bob Lew ellyn

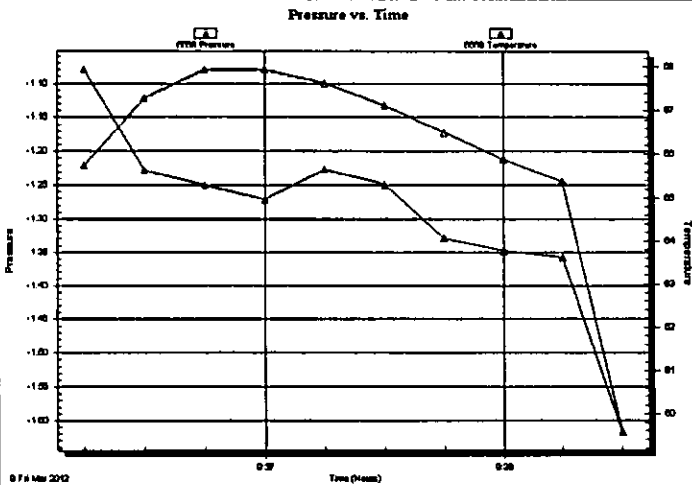
8-19s-29w Lane Co KS  
**Melita #1-8**  
Job Ticket: 45122      DST#: 7  
Test Start: 2012.03.09 @ 09:36:00

### GENERAL INFORMATION:

Formation: **Pleasanton-Marmaton-**  
Deviated: **No** Whipstock:                      ft (KB)      Test Type: **Conventional Bottom Hole (Reset)**  
Time Tool Opened: 11:40:30      Tester: **Mike Roberts**  
Time Test Ended: 15:34:15      Unit No: **48**  
Interval: **4320.00 ft (KB) To 4440.00 ft (KB) (TVD)**      Reference Elevations: **2844.00 ft (KB)**  
Total Depth: **4440.00 ft (KB) (TVD)**      **2837.00 ft (CF)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **7.00 ft**

Serial #: **6668**      Outside  
Press@RunDepth:                      psig @      4415.00 ft (KB)      Capacity:                      8000.00 psig  
Start Date:                      2012.03.09      End Date:                      2012.03.09      Last Calib.:                      2012.03.11  
Start Time:                      09:36:15      End Time:                      09:38:30      Time On Btmr  
Time Off Btmr

TEST COMMENT: IF: Built to 1" blow  
IS: No return blow  
FF: Built to 1 1/8" blow  
FS: No return blow

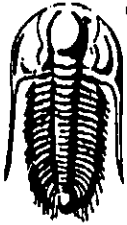


PRESSURE SUMMARY			
Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
80.00	mud with oil spots	0.39

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Otritz Ks 67564

**Melita #1-8**

Job Ticket: 45122

**DST#: 7**

ATTN: Bob Lew ellyn

Test Start: 2012.03.09 @ 09:36:00

**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: 66.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.71 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbf
80.00	mud with oil spots	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbf

Num Fluid Samples: 0

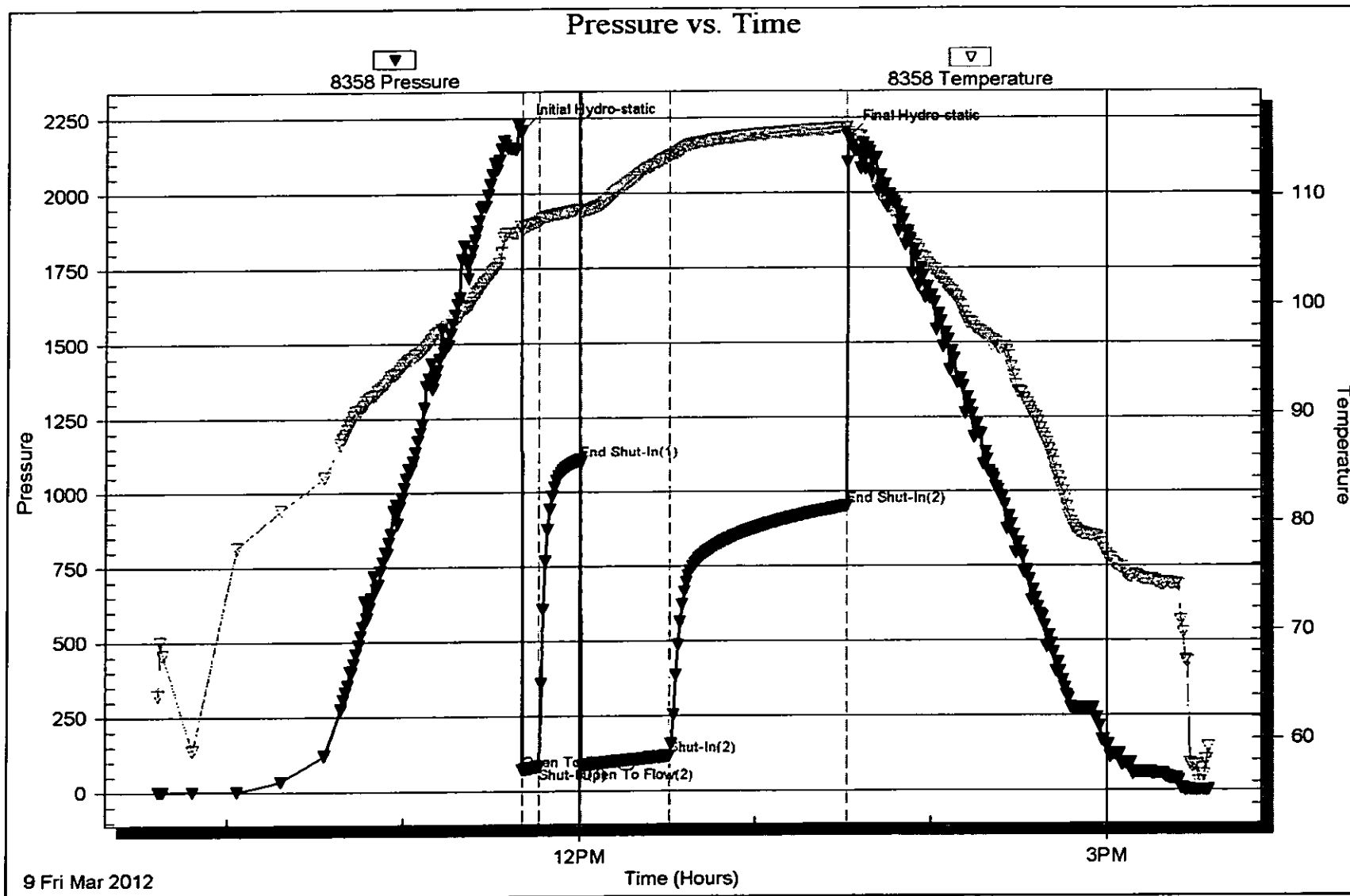
Num Gas Bombs: 0

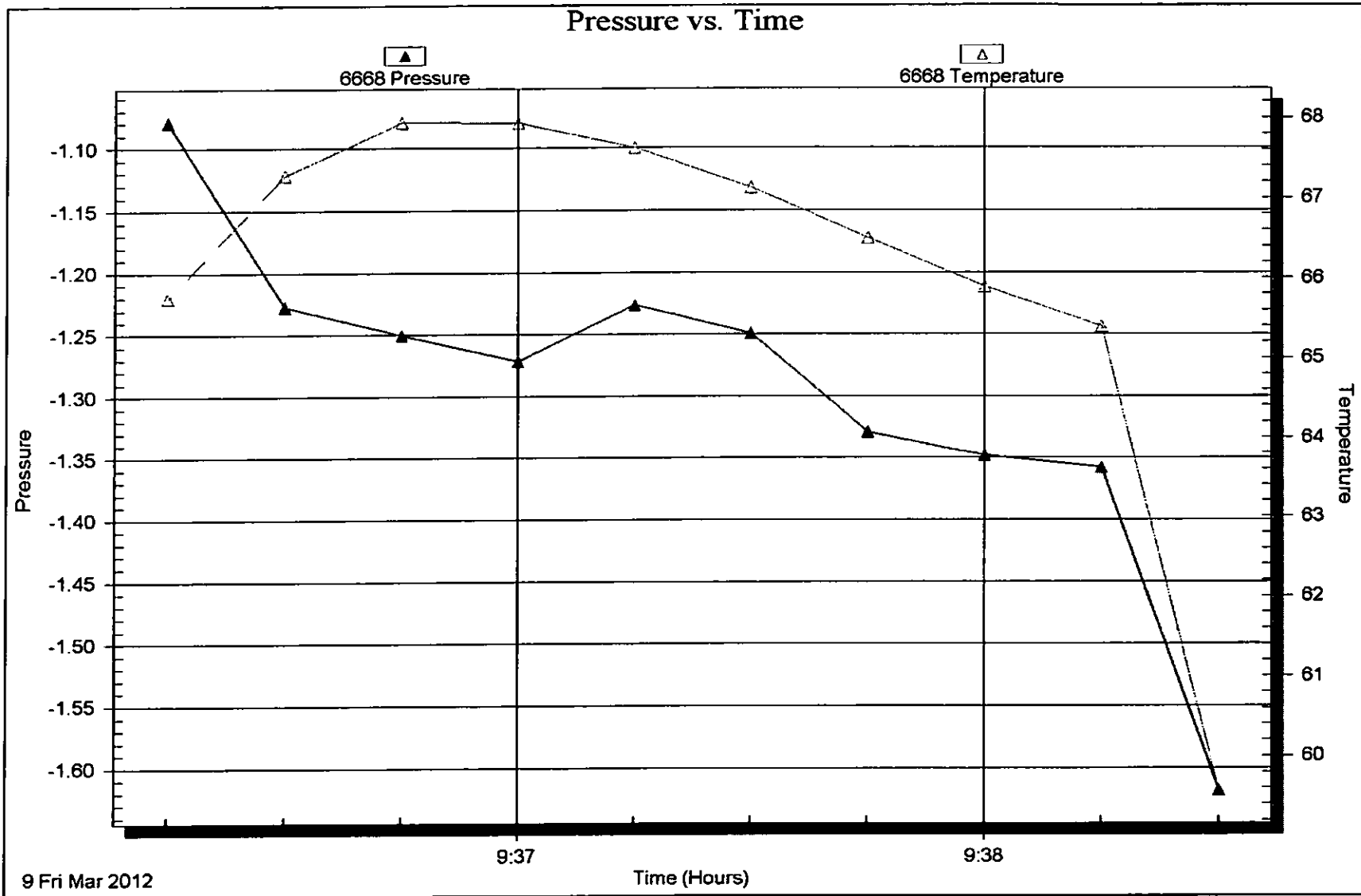
Serial #:

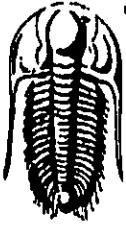
Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.  
 562 West St. Rd. #4  
 Otritz Ks 67564  
 ATTN: Bob Lew ellyn

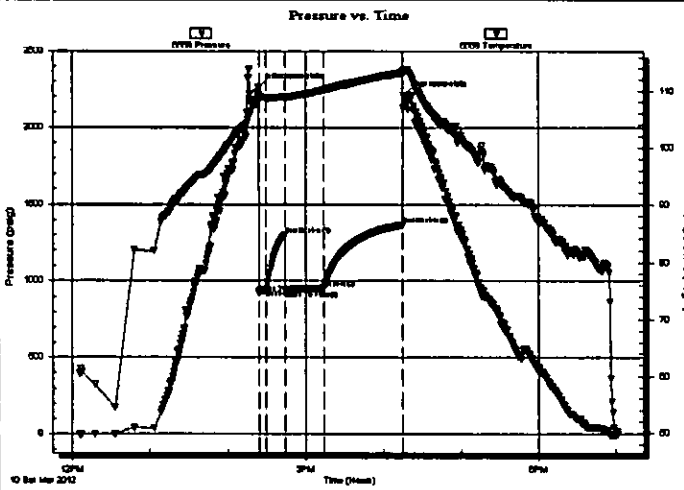
8-19s-29w Lane Co KS  
**Mellita #1-8**  
 Job Ticket: 45123      **DST#: 8**  
 Test Start: 2012.03.10 @ 12:06:15

## GENERAL INFORMATION:

Formation: **Pawnee Ft. Scott**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 14:24:00  
 Time Test Ended: 19:01:15  
 Interval: **4443.00 ft (KB) To 4540.00 ft (KB) (TVD)**  
 Total Depth: **4540.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Reset)**  
 Tester: **Mike Roberts**  
 Unit No: **48**  
 Reference Elevations: **2844.00 ft (KB)**  
    **2837.00 ft (CF)**  
    KB to GR/CF: **7.00 ft**

Serial #: **6668**      **Outside**  
 Press@RunDepth: **955.56 psig @ 4508.00 ft (KB)**  
 Start Date: **2012.03.10**      End Date: **2012.03.10**  
 Start Time: **12:06:15**      End Time: **19:01:15**  
 Capacity: **8000.00 psig**  
 Last Calib.: **2012.03.12**  
 Time On Btrm: **2012.03.10 @ 14:23:45**  
 Time Off Btrm: **2012.03.10 @ 16:15:45**

TEST COMMENT: IF:BOB in 30 seconds  
 IS:Built to 3" return blow  
 FF:Built to 3 1/8" blow  
 FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.79	109.14	Initial Hydro-static
1	921.94	108.35	Open To Flow (1)
6	946.09	108.73	Shut-in(1)
20	1300.34	108.90	End Shut-in(1)
20	939.18	108.68	Open To Flow (2)
50	955.56	110.13	Shut-in(2)
111	1365.18	113.25	End Shut-in(2)
112	2215.76	113.37	Final Hydro-static

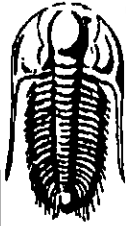
## Recovery

Length (ft)	Description	Volume (bbl)
2230.00	mud 100%m	29.90

\* Recovery from multiple tests

## Gas Rates

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



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TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

Melita #1-8

Job Ticket: 45123

DST#: 8

ATTN: Bob Lew ellyn

Test Start: 2012.03.10 @ 12:06:15

### 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: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.70 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: 0.00 ohm.m

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2230.00	mud 100%m	29.896

Total Length: 2230.00 ft      Total Volume: 29.896 bbl

Num Fluid Samples: 0

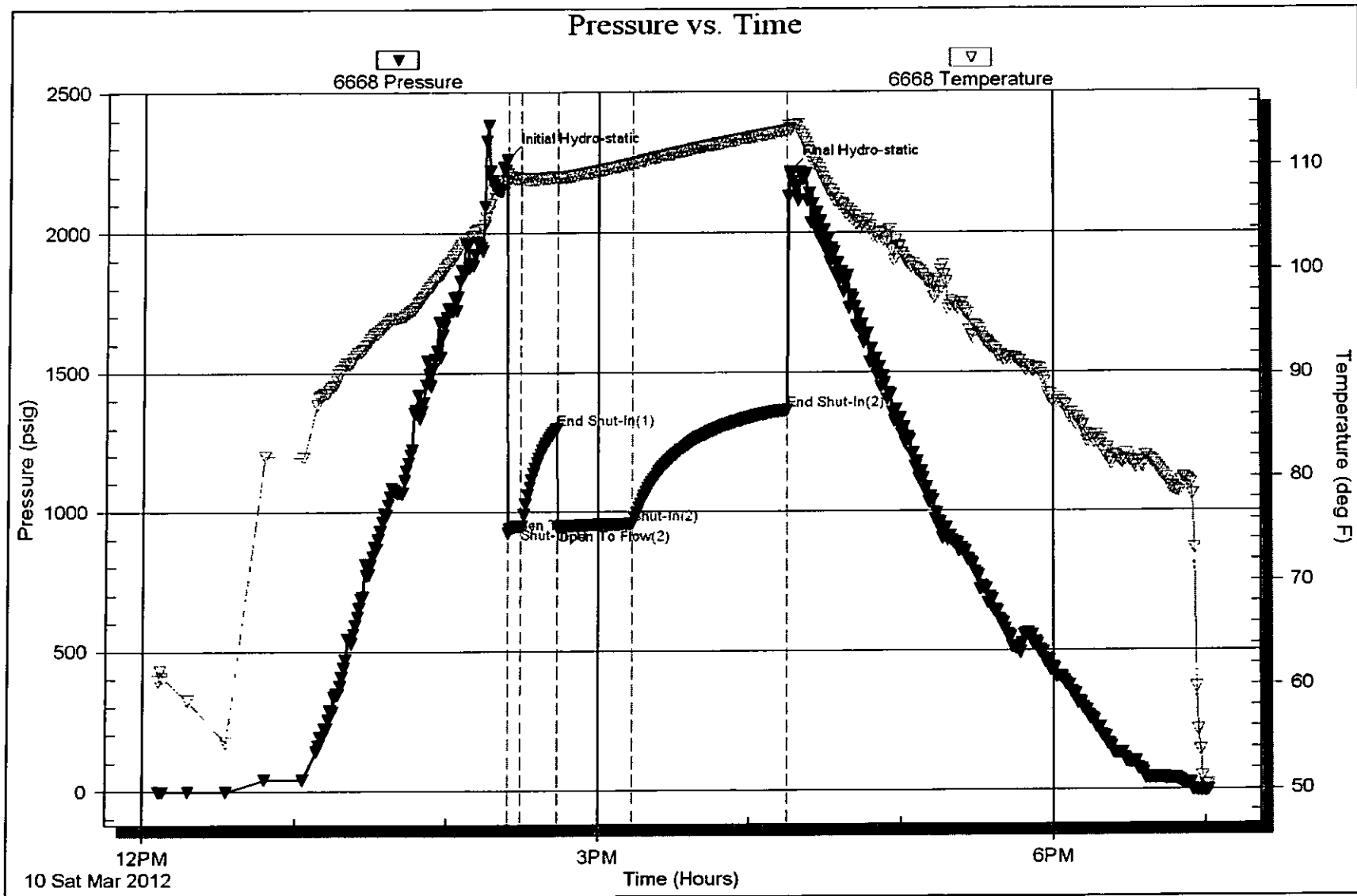
Num Gas Bombs: 0

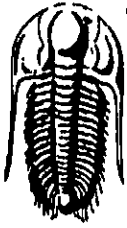
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.

8-19s-29w Lane Co KS

562 West St. Rd. #4  
Olmitz Ks 67564

Melita #1-8

Job Ticket: 45124

DST#: 9

ATTN: Bob Lewellyn

Test Start: 2012.03.11 @ 01:27:15

## GENERAL INFORMATION:

Formation: **Pawnee Ft. Scott**

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

Time Tool Opened: 03:55:45

Time Test Ended: 08:36:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Mike Roberts**

Unit No: **48**

Interval: **4418.00 ft (KB) To 4540.00 ft (KB) (TVD)**

Total Depth: **4540.00 ft (KB) (TVD)**

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

Reference Elevations: **2844.00 ft (KB)**

**2837.00 ft (CF)**

KB to GR/CF: **7.00 ft**

Serial #: **6668**

Outside

Press@RunDepth: **100.72 psig @ 4513.00 ft (KB)**

Start Date: **2012.03.11**

End Date: **2012.03.11**

Capacity: **8000.00 psig**

Last Calib.: **2012.03.12**

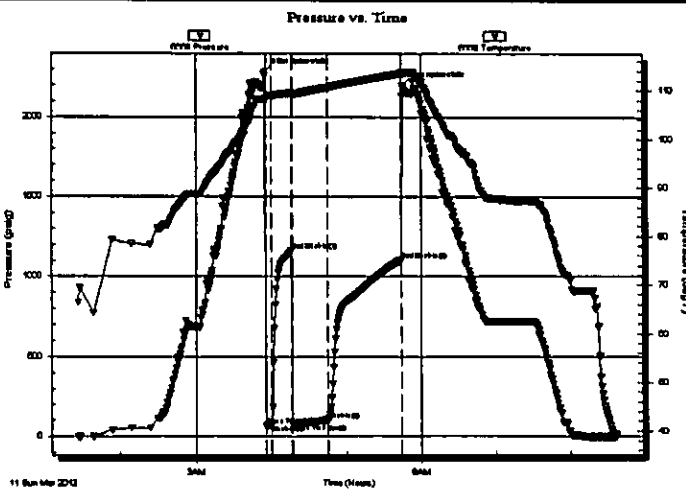
Start Time: **01:27:15**

End Time: **08:36:30**

Time On Btm: **2012.03.11 @ 03:54:45**

Time Off Btm: **2012.03.11 @ 05:45:00**

TEST COMMENT: IF: Built to 1" blow  
IS: No return blow  
FF: Built to 1 1/4" blow  
FS: No return blow



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.12	108.27	Initial Hydro-static
1	67.81	108.01	Open To Flow (1)
6	73.58	108.88	Shut-in(1)
22	1160.92	109.47	End Shut-in(1)
22	77.17	109.01	Open To Flow (2)
51	100.72	110.64	Shut-in(2)
109	1104.28	113.49	End Shut-in(2)
111	2200.00	113.38	Final Hydro-static

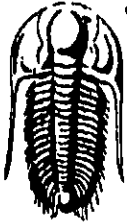
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud 100% m	0.30

\* Recovery from multiple tests

## Gas Rates

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



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**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Olmitz Ks 67564

**Mellita #1-8**

Job Ticket: 45124

**DST#: 9**

ATTN: Bob Lew ellyn

Test Start: 2012.03.11 @ 01:27:15

**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: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
60.00	mud 100% m	0.295

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

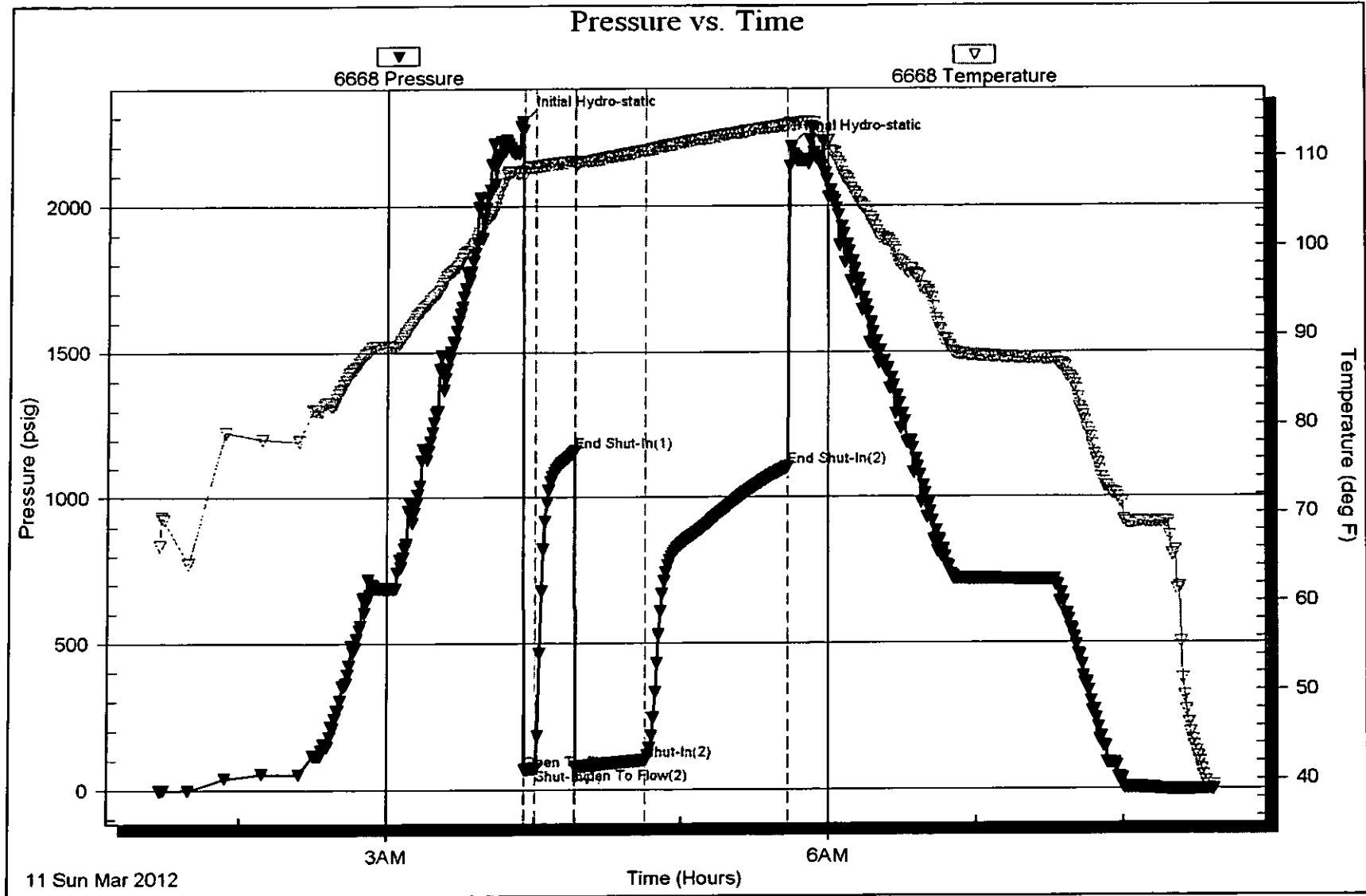
Num Gas Bombs: 0

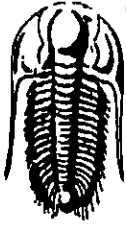
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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TESTING, INC.**

# DRILL STEM TEST REPORT

Larson Engineering, Inc.  
562 West St. Rd. #4  
Olmits Ks 67564  
ATTN: Bob Lew ellyn

**8-19s-29w Lane Co KS**

**Melita #1-8**

Job Ticket: 45125

**DST#: 10**

Test Start: 2012.03.12 @ 21:41:15

## GENERAL INFORMATION:

Formation: **Johnson**

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

Time Tool Opened: 23:40:45

Time Test Ended: 02:45:30

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Mike Roberts**

Unit No: **48**

Interval: **4506.00 ft (KB) To 4575.00 ft (KB) (TVD)**

Reference Elevations: **2844.00 ft (KB)**

Total Depth: **4575.00 ft (KB) (TVD)**

**2837.00 ft (CF)**

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

KB to GR/CF: **7.00 ft**

Serial #: **6668**

**Outside**

Press@RunDepth: **21.53 psig @ 4570.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.03.12**

End Date:

**2012.03.13**

Last Calib.:

**2012.03.13**

Start Time: **21:41:15**

End Time:

**02:45:30**

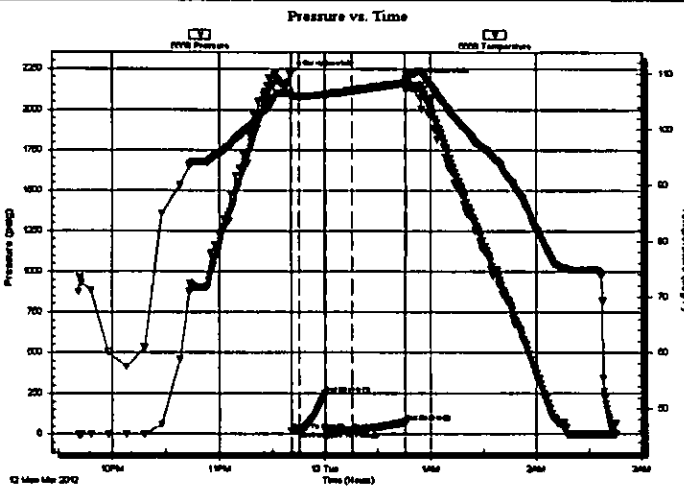
Time On Btrn:

**2012.03.12 @ 23:40:30**

Time Off Btrn:

**2012.03.13 @ 00:46:15**

TEST COMMENT: IF: Built to weak surface blow  
IS: No return blow  
FF: No blow  
FS: No return blow



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.48	106.59	Initial Hydro-static
1	17.85	105.89	Open To Flow (1)
5	19.02	105.90	Shut-In(1)
20	247.41	106.24	End Shut-In(1)
20	20.09	106.25	Open To Flow (2)
35	21.53	106.93	Shut-In(2)
65	72.68	108.31	End Shut-In(2)
66	2171.11	109.69	Final Hydro-static

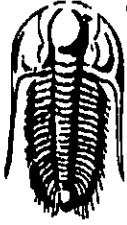
## Recovery

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

\* Recovery from multiple tests

## Gas Rates

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



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**FLUID SUMMARY**

Larson Engineering, Inc.

**8-19s-29w Lane Co KS**

562 West St. Rd. #4  
Olmitz Ks 67564

**Melita #1-8**

Job Ticket: 45125

**DST#: 10**

ATTN: Bob Lew ellyn

Test Start: 2012.03.12 @ 21:41:15

**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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.35 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100% <sub>m</sub>	0.025

Total Length:

5.00 ft

Total Volume:

0.025 bbl

Num Fluid Samples: 0

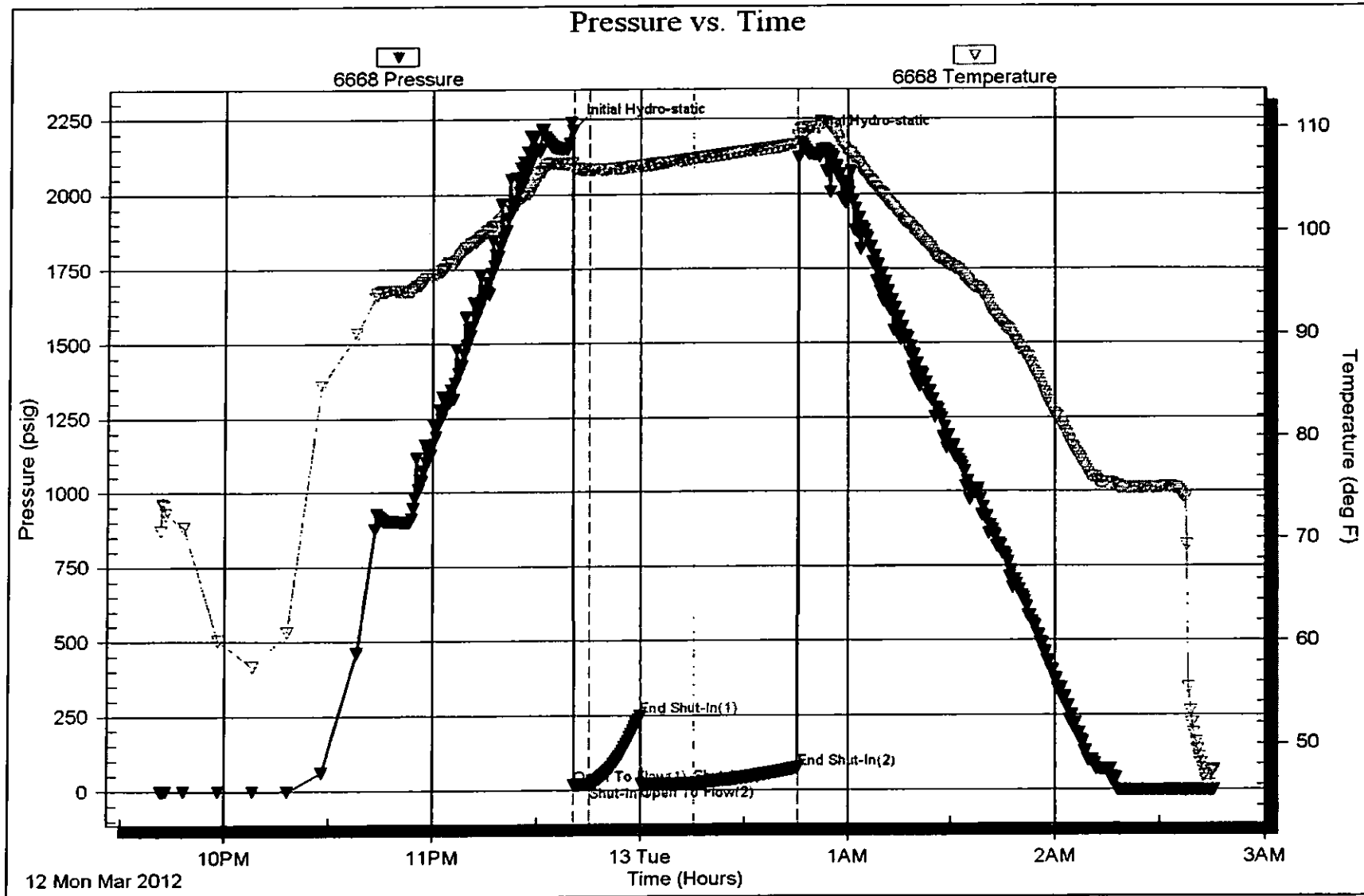
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 29, 2012

Thomas Larson  
Larson Engineering, Inc. dba Larson Operating  
Company  
562 W STATE RD 4  
OLMITZ, KS 67564-8561

Re: ACO1  
API 15-101-22354-00-00  
Melita 1-8  
SE/4 Sec.08-19S-29W  
Lane County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Thomas Larson

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

June 29, 2012

Thomas Larson  
Larson Engineering, Inc. dba Larson Operating  
Company  
562 W STATE RD 4  
OLMITZ, KS 67564-8561

Re: ACO-1  
API 15-101-22354-00-00  
Melita 1-8  
SE/4 Sec.08-19S-29W  
Lane County, Kansas

Dear Thomas Larson:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 2/29/2012 and the ACO-1 was received on June 29, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department