



DRILL STEM TEST REPORT

Prepared For: **Berexco LLC.**

2020 N. Bramblewood
Wichita, KS 67202

ATTN: Bryan Bynog

Ivalee #1-16

16-1s-37w Cheyenne,KS

Start Date: 2013.04.04 @ 23:00:00

End Date: 2013.04.05 @ 10:37:00

Job Ticket #: 50600 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.04.09 @ 08:44:52



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TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC.

16-1s-37w Cheyenne,KS

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Wichita, KS 67202

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Job Ticket: 50600

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Test Start: 2013.04.04 @ 23:00:00

GENERAL INFORMATION:

Formation: **LKC-E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:52:30

Time Test Ended: 10:37:00

Test Type: Conventional Bottom Hole (Reset)

Tester: 61

Unit No: Chuck Kreuzer

Interval: 4325.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 3196.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

3186.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

Serial #: 8791

Inside

Press @ RunDepth: 49.86 psig @ 4326.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.04

End Date:

2013.04.05

Last Calib.: 2013.04.05

Start Time: 23:00:01

End Time:

10:37:00

Time On Btm: 2013.04.05 @ 02:33:30

Time Off Btm: 2013.04.05 @ 07:23:00

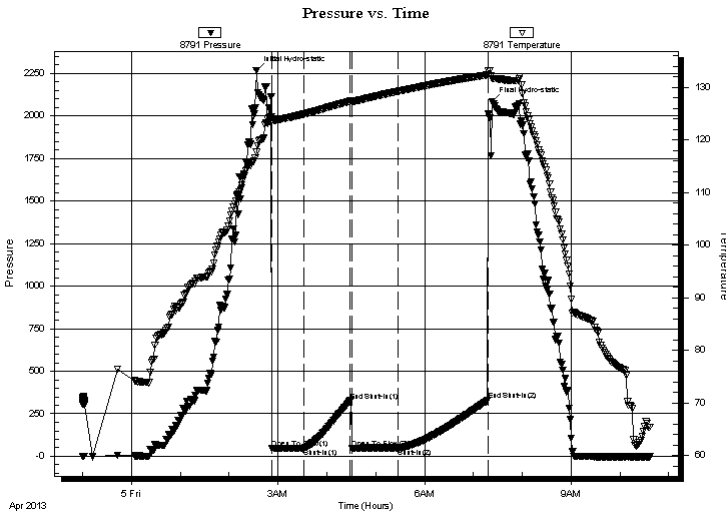
TEST COMMENT: IF: Weak Blow, Dead in 3 mins.

IS: No blow back

FF: No blow

FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.31	117.67	Initial Hydro-static
19	45.18	123.68	Open To Flow (1)
58	46.34	124.88	Shut-In(1)
115	325.64	127.37	End Shut-In(1)
117	48.47	127.30	Open To Flow (2)
174	49.86	129.22	Shut-In(2)
284	328.00	132.37	End Shut-In(2)
290	2085.55	131.65	Final Hydro-static

Recovery

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

Gas Rates

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

* Recovery from multiple tests



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TOOL DIAGRAM

Berexco LLC.

16-1s-37w Cheyenne,KS

2020 N. Bramblewood
Wichita, KS 67202

Ivalee #1-16

Job Ticket: 50600

DST#: 3

ATTN: Bryan Bynog

Test Start: 2013.04.04 @ 23:00:00

Tool Information

Drill Pipe:	Length: 3710.00 ft	Diameter: 3.80 inches	Volume: 52.04 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 592.00 ft	Diameter: 2.25 inches	Volume: 2.91 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 54.95 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4325.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.25 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
Shut In Tool	5.00			4302.00	
Hydraulic tool	5.00			4307.00	
Jars	5.00			4312.00	
Safety Joint	3.00			4315.00	
Packer	5.00			4320.00	28.00 Bottom Of Top Packer
Packer	5.00			4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	8791	Inside	4326.00	
Recorder	0.00	8651	Outside	4326.00	
Perforations	1.00			4327.00	
change Over Sub	1.00			4328.00	
Drill Pipe	31.00			4359.00	
Change Over Sub	1.00			4360.00	
Perforations	17.00			4377.00	
Bullnose	3.00			4380.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



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FLUID SUMMARY

Berexco LLC.

16-1s-37w Cheyenne,KS

2020 N. Bramblewood
Wichita, KS 67202

Ivaley #1-16

Job Ticket: 50600

DST#: 3

ATTN: Bryan Bynog

Test Start: 2013.04.04 @ 23:00:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud-100%	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

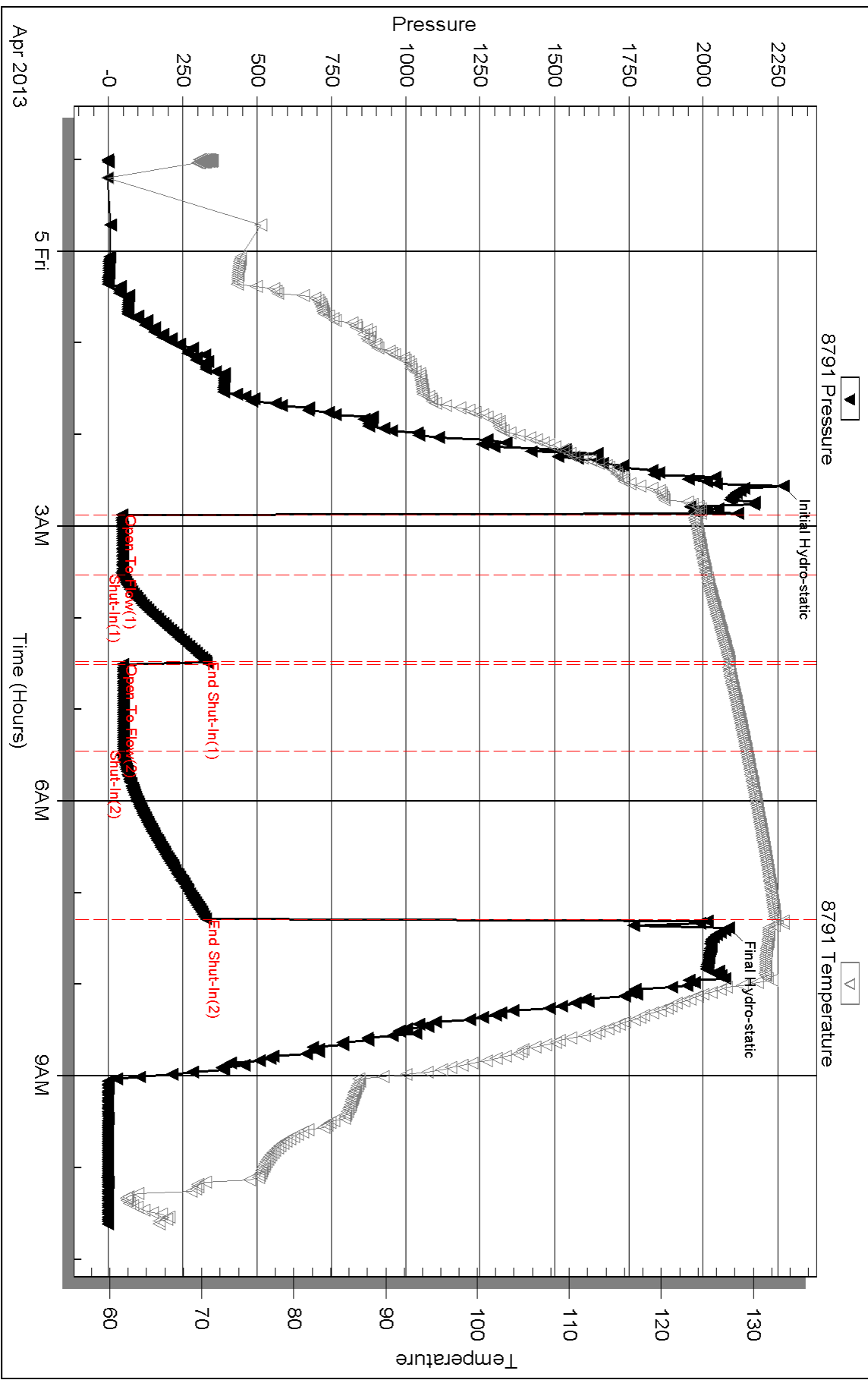
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

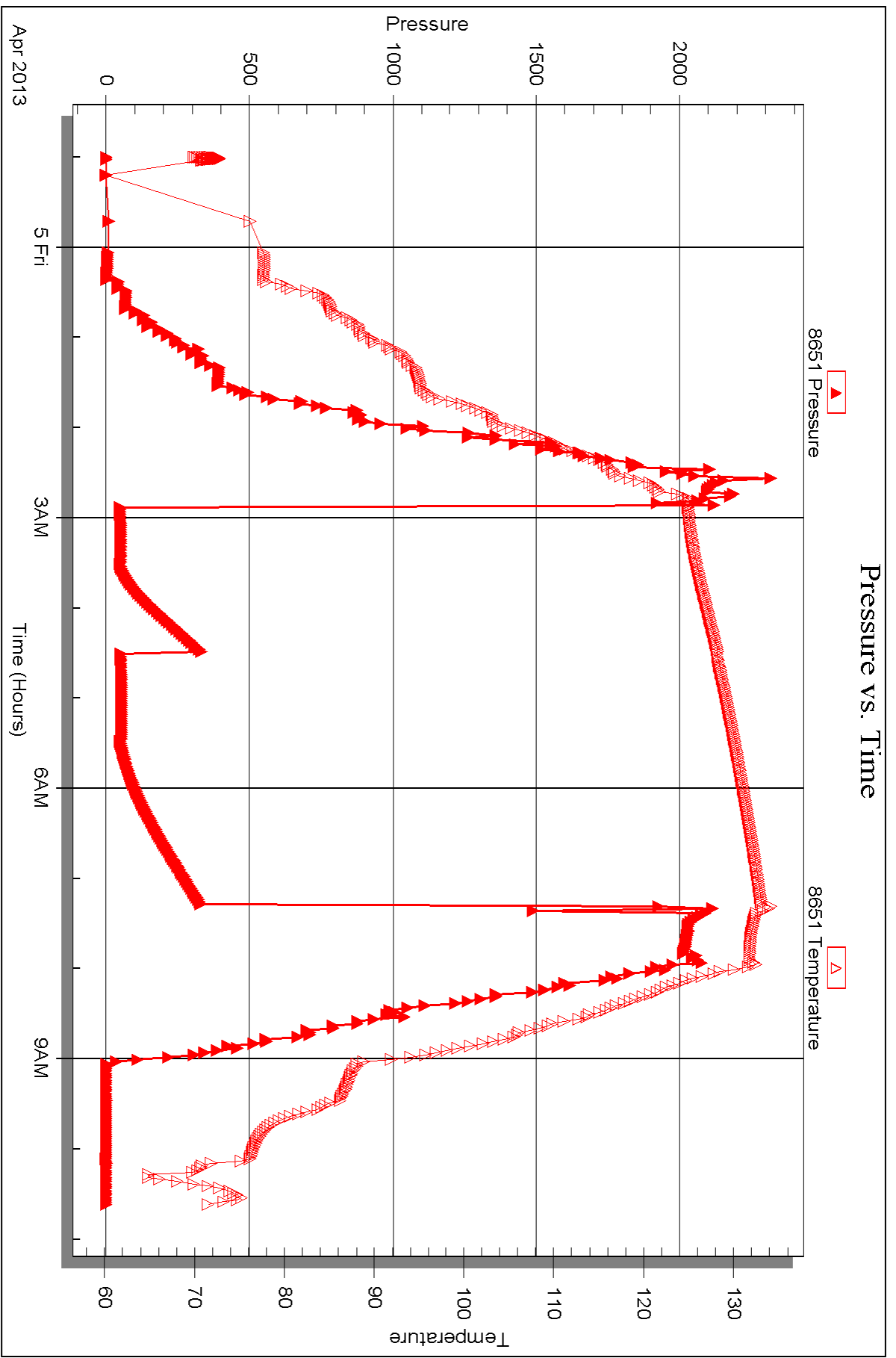


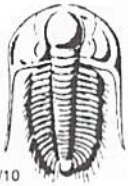
Serial #: 8651

Outside Berexco LLC.

Walee #1-16

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50600

4/10

Well Name & No. Ivatee #1-16 Test No. 3 Date 4-5-2013
 Company Berexco LLC. Elevation 3196 KB 3186 GL
 Address 2020
 Co. Rep / Geo. Bryan Byng Rig Berexco
 Location: Sec. 16 Twp. 15 Rge. 37W Co. Dundy State NE

Interval Tested 4325 4380 Zone Tested LKC-E
 Anchor Length 55 Drill Pipe Run 03700 Mud Wt. 9.3
 Top Packer Depth 4320 Drill Collars Run 592 Vis 45
 Bottom Packer Depth 4325 Wt. Pipe Run -0- WL 6.8
 Total Depth 4380 Chlorides 2400 ppm System LCM 1#

Blow Description IF: Weak blow, OBad in 3 mins.

ISE: No blow back

FF: No blow

FSE: No blow balls

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>mud</u>				

Rec Total 5 BHT 129 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2268</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>23:00</u>
(B) First Initial Flow <u>45</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>23:00</u>
(C) First Final Flow <u>46</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open _____
(D) Initial Shut-In <u>326</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>9:10</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>50</u>	<input checked="" type="checkbox"/> Mileage <u>78x2 = 156 x 1.55</u> 241.80	Comments _____
(G) Final Shut-In <u>328</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2086</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1816.80</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____

Sub Total 1816.80

Approved By _____ Our Representative Chad Byng
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