



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

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 <i>(Amount and Kind of Material Used)</i>	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
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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)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Liberty Oper & Compl, Inc
Well Name	Richard 1
Doc ID	1147537

Tops

Name	Top	Datum
Anhydrite	1215	740
Topeka	2923	-968
Heebner	3145	-1190
Toronto	3164	-1209
L/KCA	3186	-1231
Stark Shale	3376	-1421
b/KC	3429	-1474
Conglomerate	3444	-1489
Arbuckle	3552	-1597



DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Compl. Inc.**

308 W Mill
Plainville, KS 67663-2229

ATTN: Tony Richardson

Richards #1

32-10s-17w Rooks,KS

Start Date: 2013.05.05 @ 13:48:56

End Date: 2013.05.05 @ 23:39:06

Job Ticket #: 53776 DST #: 1

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

Printed: 2013.05.20 @ 08:25:23

Liberty Operations & Compl. Inc.
32-10s-17w Rooks,KS
Richards #1
DST # 1
KC "H-L"
2013.05.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53776

DST#: 1

ATTN: Tony Richardson

Test Start: 2013.05.05 @ 13:48:56

GENERAL INFORMATION:

Formation: **KC "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:34:36

Time Test Ended: 23:39:06

Test Type: Conventional Bottom Hole (Initial)

Tester: Daniel Fertig

Unit No: 68

Interval: 3296.00 ft (KB) To 3420.00 ft (KB) (TVD)

Total Depth: 3420.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1955.00 ft (KB)

1950.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 36.35 psig @ 3298.00 ft (KB)

Start Date: 2013.05.05

End Date: 2013.05.05

Start Time: 13:49:01

End Time: 23:39:05

Capacity: 8000.00 psig

Last Calib.: 2013.05.05

Time On Btm: 2013.05.05 @ 17:34:26

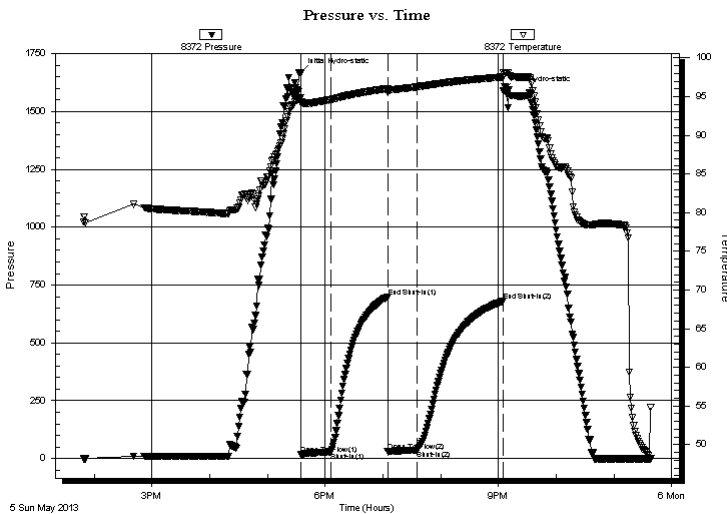
Time Off Btm: 2013.05.05 @ 21:05:16

TEST COMMENT: IFP-30- Weak blow . 1" Build.

ISI-60- No Blow

FFP-30- No Blow

FSI-90- No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.49	94.92	Initial Hydro-static
1	17.08	94.22	Open To Flow (1)
32	28.68	94.61	Shut-In(1)
91	699.74	96.03	End Shut-In(1)
91	30.71	95.60	Open To Flow (2)
121	36.35	96.26	Shut-In(2)
211	679.84	97.55	End Shut-In(2)
211	1588.89	98.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM 5%O 95%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53776

DST#: 1

ATTN: Tony Richardson

Test Start: 2013.05.05 @ 13:48:56

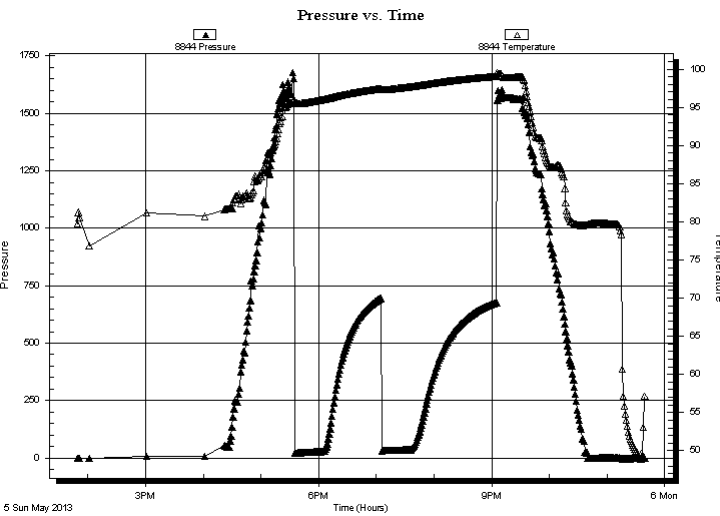
GENERAL INFORMATION:

Formation: **KC "H-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:34:36
 Time Test Ended: 23:39:06
Interval: 3296.00 ft (KB) To 3420.00 ft (KB) (TVD)
 Total Depth: 3420.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Daniel Fertig
 Unit No: 68
 Reference Elevations: 1955.00 ft (KB)
 1950.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8844 Inside

Press @ Run Depth:	psig @	3298.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2013.05.05	End Date:	2013.05.05	Last Calib.:	2013.05.05
Start Time:	13:49:21	End Time:	23:39:16	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: IFP-30- Weak blow . 1" Build.
 ISI-60- No Blow
 FFP-30- No Blow
 FSI-90- No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM 5%O 95%M	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53776

DST#: 1

ATTN: Tony Richardson

Test Start: 2013.05.05 @ 13:48:56

Tool Information

Drill Pipe:	Length: 3129.00 ft	Diameter: 3.80 inches	Volume: 43.89 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 160.00 ft	Diameter: 2.25 inches	Volume: 0.79 bbl	Weight to Pull Loose:	43000.00 lb
			<u>Total Volume: 44.68 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3296.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	124.00 ft				
Tool Length:	145.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3276.00	
Shut In Tool	5.00			3281.00	
Hydraulic tool	5.00			3286.00	
Packer	5.00			3291.00	21.00 Bottom Of Top Packer
Packer	5.00			3296.00	
Perforations	1.00			3297.00	
Change Over Sub	1.00			3298.00	
Recorder	0.00	8372	Outside	3298.00	
Recorder	0.00	8844	Inside	3298.00	
Drill Pipe	93.00			3391.00	
Change Over Sub	1.00			3392.00	
Perforations	25.00			3417.00	
Bullnose	3.00			3420.00	124.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53776

DST#: 1

ATTN: Tony Richardson

Test Start: 2013.05.05 @ 13:48:56

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: bbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 1.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOCM 5%O 95%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

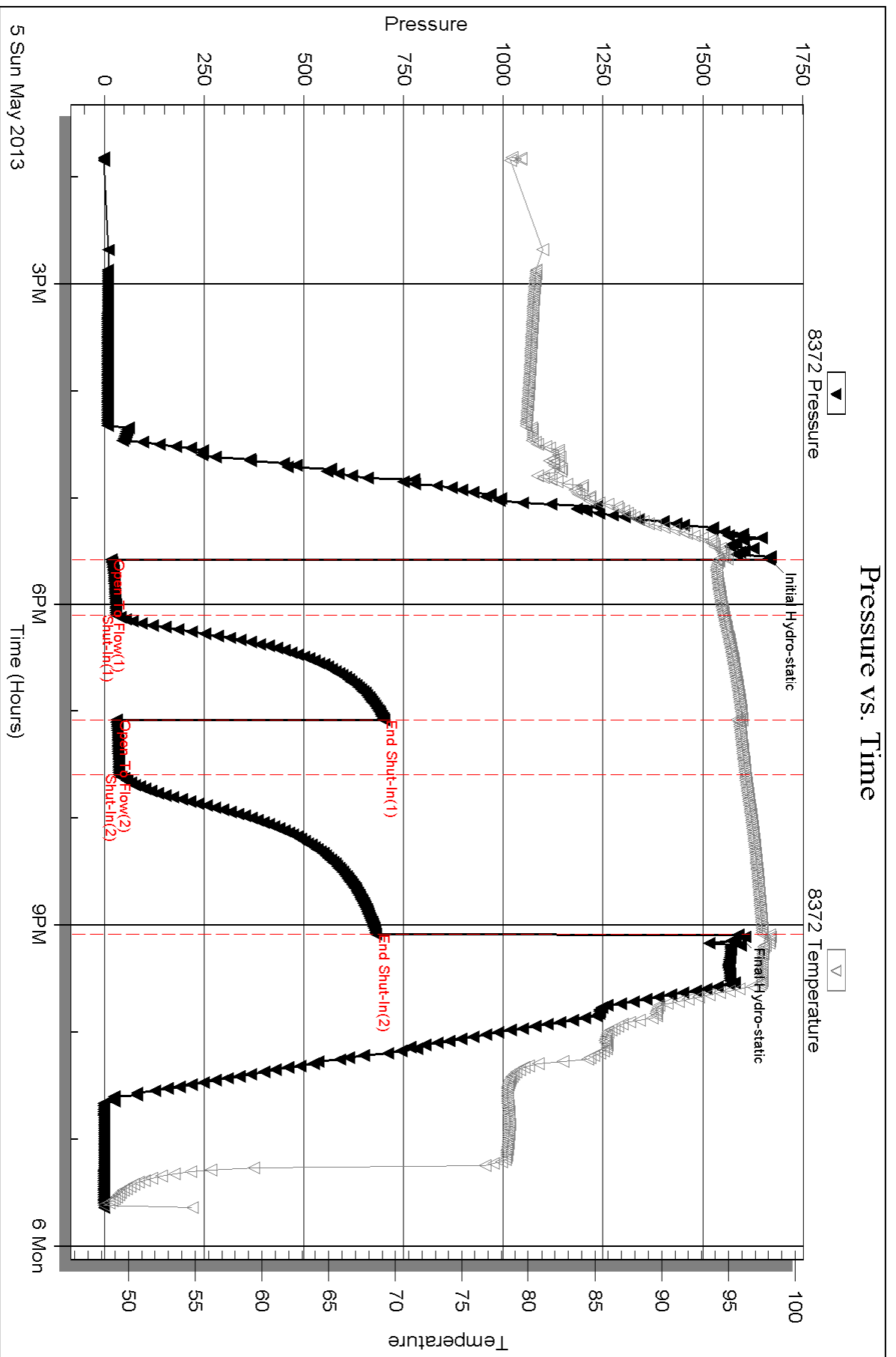
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



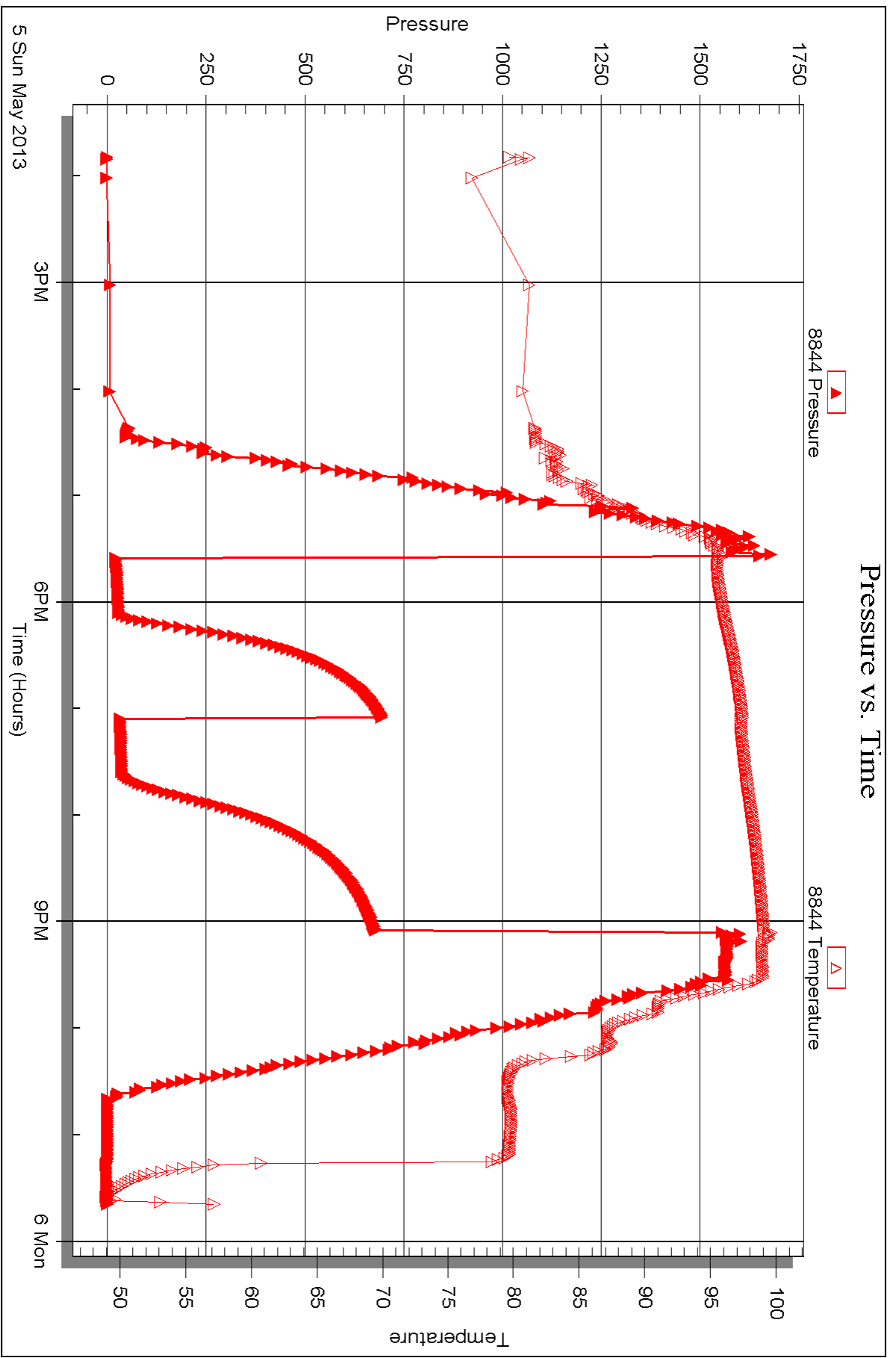
Serial #: 8844

Inside

Liberty Operations & Compl. Inc.

Richards #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Compl. Inc.**

308 W Mill
Plainville, KS 67663-2229

ATTN: Tony Richardson

Richards #1

32-10s-17w Rooks,KS

Start Date: 2013.05.06 @ 07:48:07

End Date: 2013.05.06 @ 14:57:37

Job Ticket #: 53777 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.20 @ 08:24:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53777

DST#: 2

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 07:48:07

GENERAL INFORMATION:

Formation: **Conglomerate "L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:47

Time Test Ended: 14:57:37

Test Type: Conventional Bottom Hole (Reset)

Tester: Daniel Fertig

Unit No: 68

Interval: 3400.00 ft (KB) To 3485.00 ft (KB) (TVD)

Reference Elevations: 1955.00 ft (KB)

Total Depth: 3485.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 19.66 psig @ 3404.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.06

End Date:

2013.05.06

Last Calib.:

2013.05.06

Start Time:

07:48:12

End Time:

14:57:36

Time On Btm:

2013.05.06 @ 09:27:37

Time Off Btm:

2013.05.06 @ 12:56:16

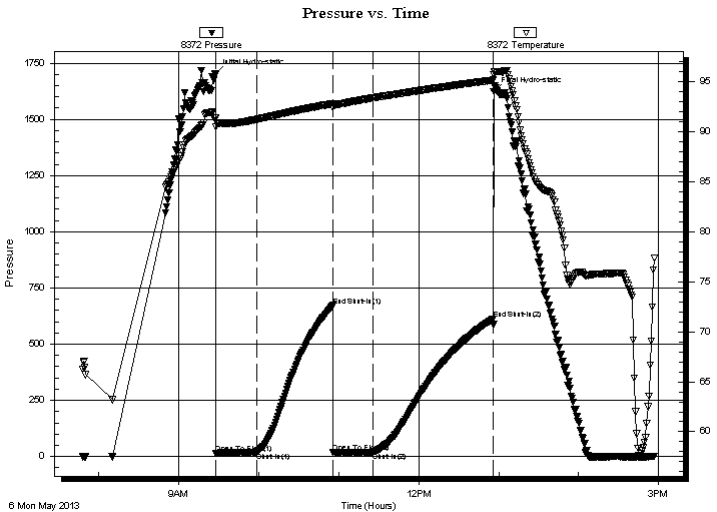
TEST COMMENT: IFP-30- Weak blow . 1/2" build.

ISI-60- No Blow .

FFP-30- No Blow .

FSI-90- No Blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.70	91.32	Initial Hydro-static
1	15.02	90.41	Open To Flow (1)
31	17.92	91.19	Shut-In(1)
88	671.21	92.77	End Shut-In(1)
89	18.46	92.37	Open To Flow (2)
119	19.66	93.35	Shut-In(2)
209	612.60	95.11	End Shut-In(2)
209	1622.51	95.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM 3%O 97%M	0.21

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53777

DST#: 2

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 07:48:07

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3400.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	106.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3380.00	
Shut In Tool	5.00			3385.00	
Hydraulic tool	5.00			3390.00	
Packer	5.00			3395.00	21.00 Bottom Of Top Packer
Packer	5.00			3400.00	
Perforations	3.00			3403.00	
Change Over Sub	1.00			3404.00	
Recorder	0.00	8372	Outside	3404.00	
Recorder	0.00	8844	Inside	3404.00	
Drill Pipe	62.00			3466.00	
Change Over Sub	1.00			3467.00	
Perforations	15.00			3482.00	
Bullnose	3.00			3485.00	85.00 Bottom Packers & Anchor

Total Tool Length: 106.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53777

DST#: 2

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 07:48:07

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOCM 3%O 97%M	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

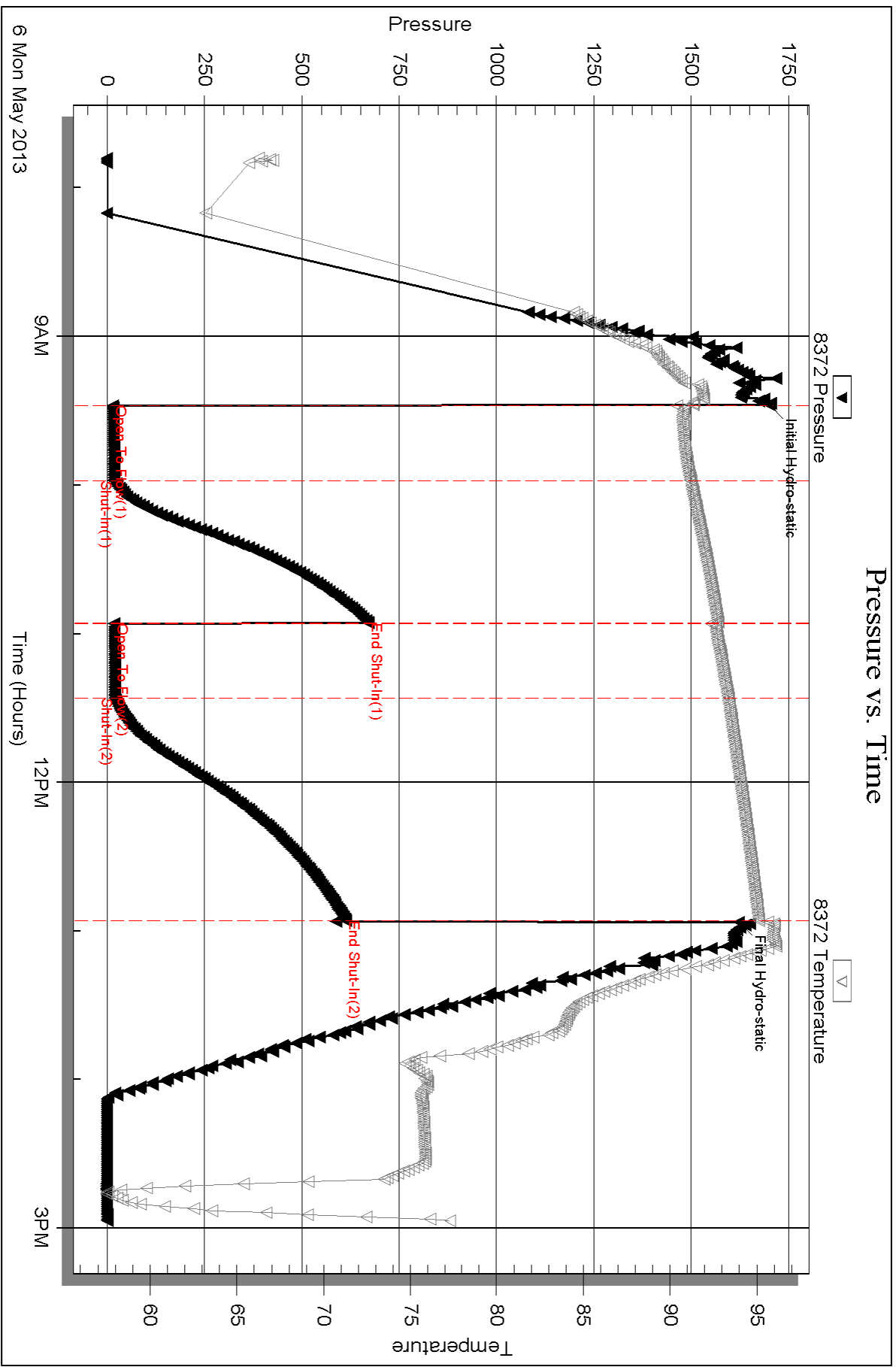
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



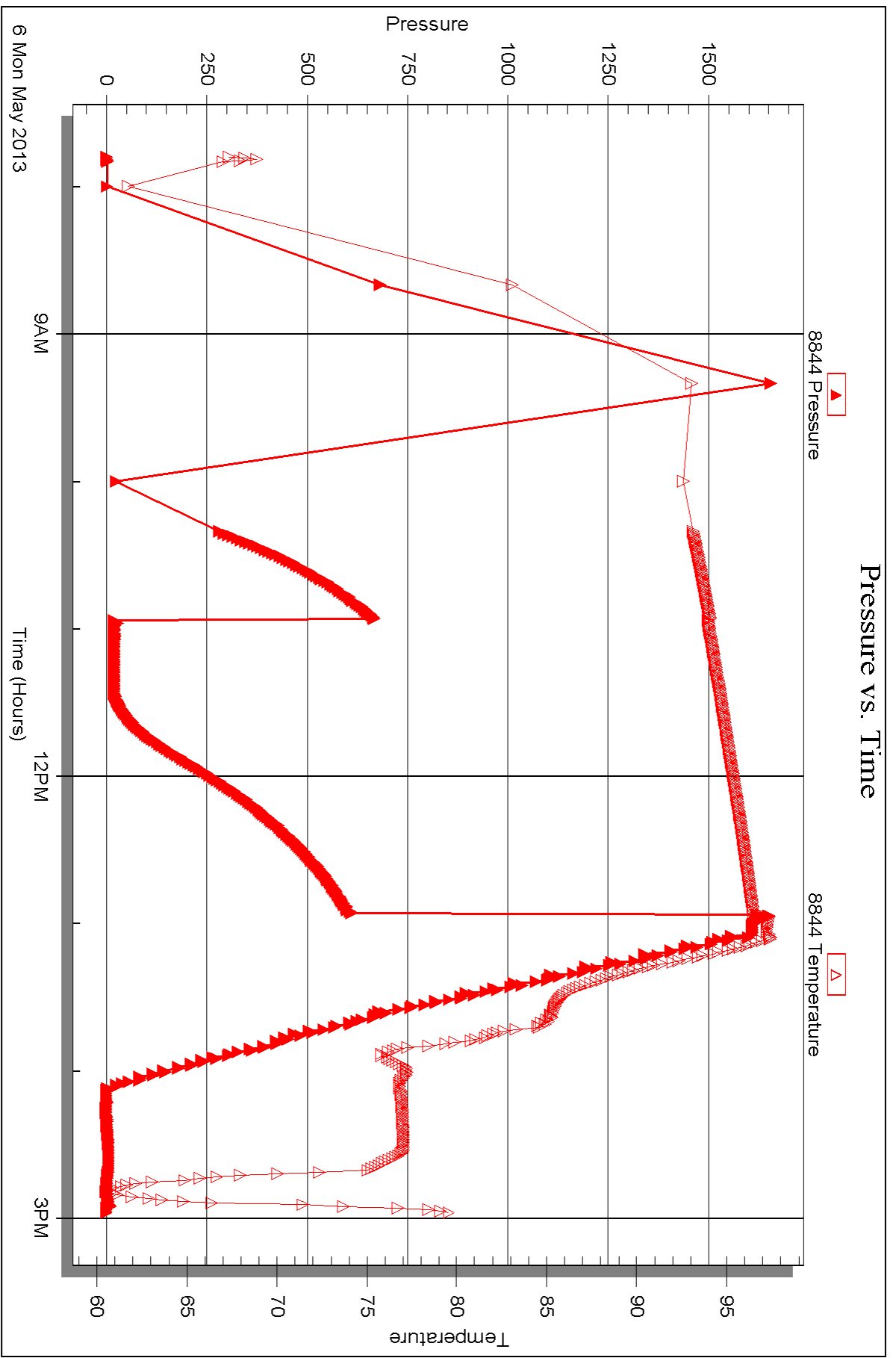
Serial #: 8844

Inside

Liberty Operations & Compl. Inc.

Richards #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 53777

Printed: 2013.05.20 @ 08:24:28



DRILL STEM TEST REPORT

Prepared For: **Liberty Operations & Compl. Inc.**

308 W Mill
Plainville, KS 67663-2229

ATTN: Tony Richardson

Richards #1

32-10s-17w Rooks,KS

Start Date: 2013.05.06 @ 20:47:00

End Date: 2013.05.07 @ 03:53:00

Job Ticket #: 53618 DST #: 3

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

Printed: 2013.05.20 @ 08:20:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53618

DST#: 3

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 20:47:00

GENERAL INFORMATION:

Formation: **L - Cong**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:23:20

Time Test Ended: 03:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 68

Interval: 3396.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 1955.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

1950.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8372 Outside

Press @ Run Depth: 21.58 psig @ 3423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.06

End Date:

2013.05.07

Last Calib.:

2013.05.07

Start Time: 20:47:05

End Time:

03:52:40

Time On Btm:

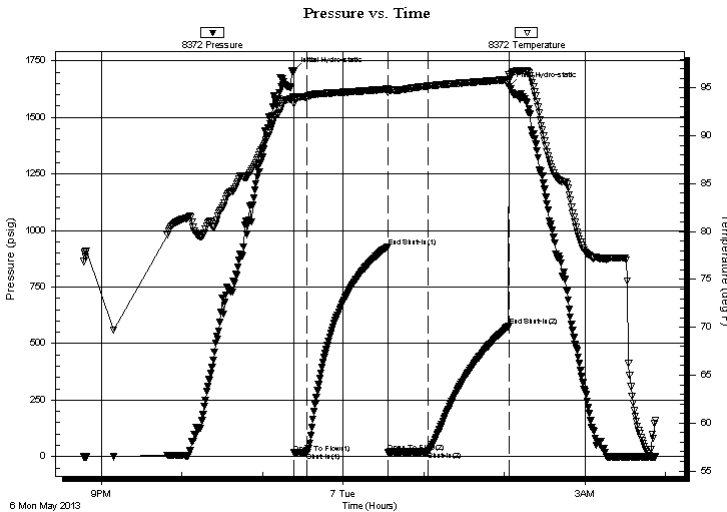
2013.05.06 @ 23:23:10

Time Off Btm:

2013.05.07 @ 02:03:20

TEST COMMENT: 10-IFP- Good Surge on Open 1" Blow
60-ISIP- No Blow
30-FFP- Good Surge on Open No Blow
60-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1704.60	94.05	Initial Hydro-static
1	16.89	93.31	Open To Flow (1)
11	19.78	94.09	Shut-In(1)
70	928.43	94.88	End Shut-In(1)
71	20.23	94.49	Open To Flow (2)
100	21.58	95.21	Shut-In(2)
160	576.29	95.89	End Shut-In(2)
161	1635.64	96.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil Speck Mud 100%	0.21

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53618

DST#: 3

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 20:47:00

Tool Information

Drill Pipe:	Length: 3390.00 ft	Diameter: 3.80 inches	Volume: 47.55 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 47.55 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3396.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	124.00 ft				
Tool Length:	145.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3376.00	
Shut In Tool	5.00			3381.00	
Hydraulic tool	5.00			3386.00	
Packer	5.00			3391.00	21.00 Bottom Of Top Packer
Packer	5.00			3396.00	
Perforations	26.00			3422.00	
Change Over Sub	1.00			3423.00	
Recorder	0.00	8372	Outside	3423.00	
Recorder	0.00	8844	Inside	3423.00	
Drill Pipe	93.00			3516.00	
Change Over Sub	1.00			3517.00	
Bullnose	3.00			3520.00	124.00 Bottom Packers & Anchor

Total Tool Length: 145.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Liberty Operations & Compl. Inc.

32-10s-17w Rooks,KS

308 W Mill
Plainville, KS 67663-2229

Richards #1

Job Ticket: 53618

DST#: 3

ATTN: Tony Richardson

Test Start: 2013.05.06 @ 20:47:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Oil Speck Mud 100%	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

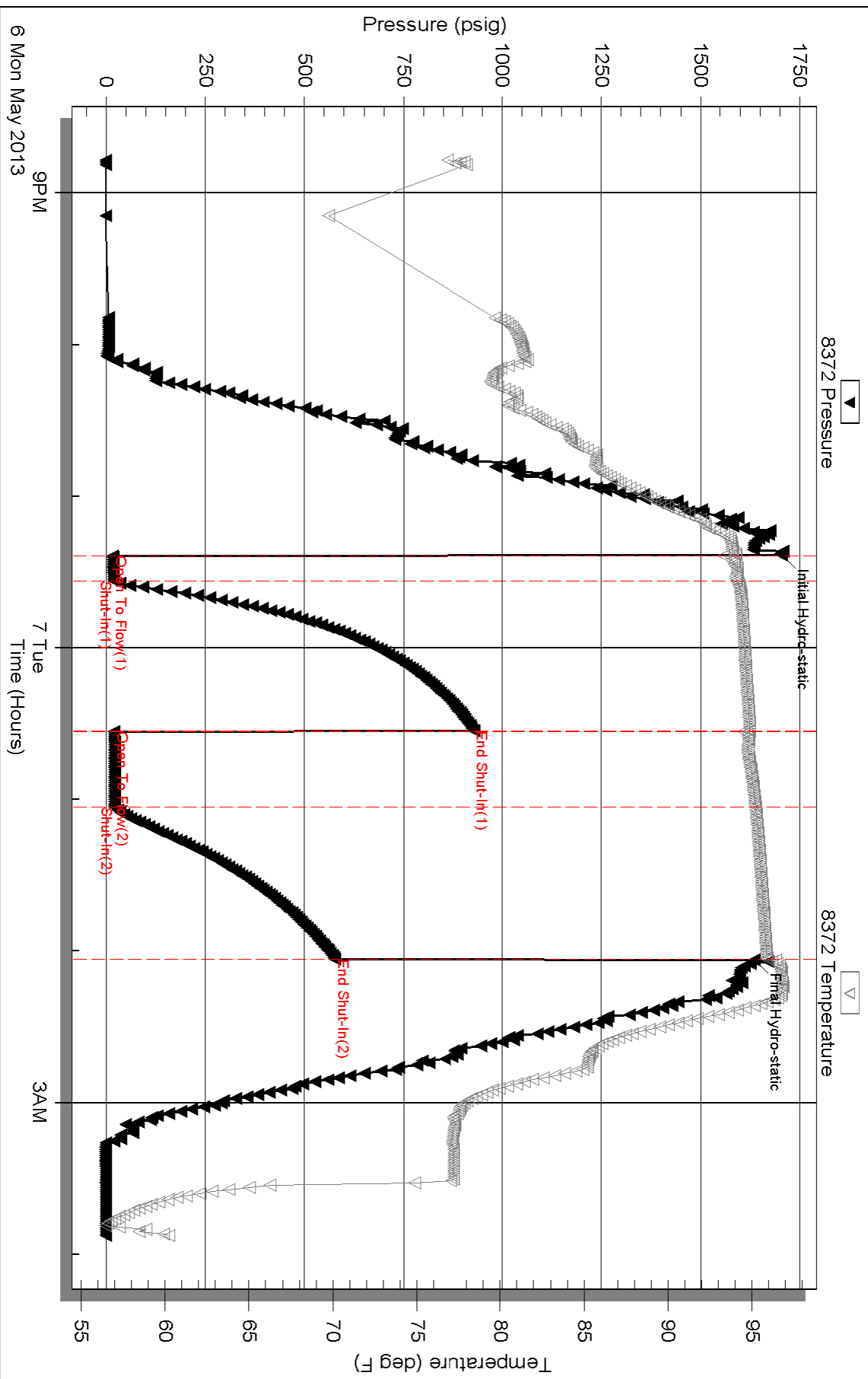
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



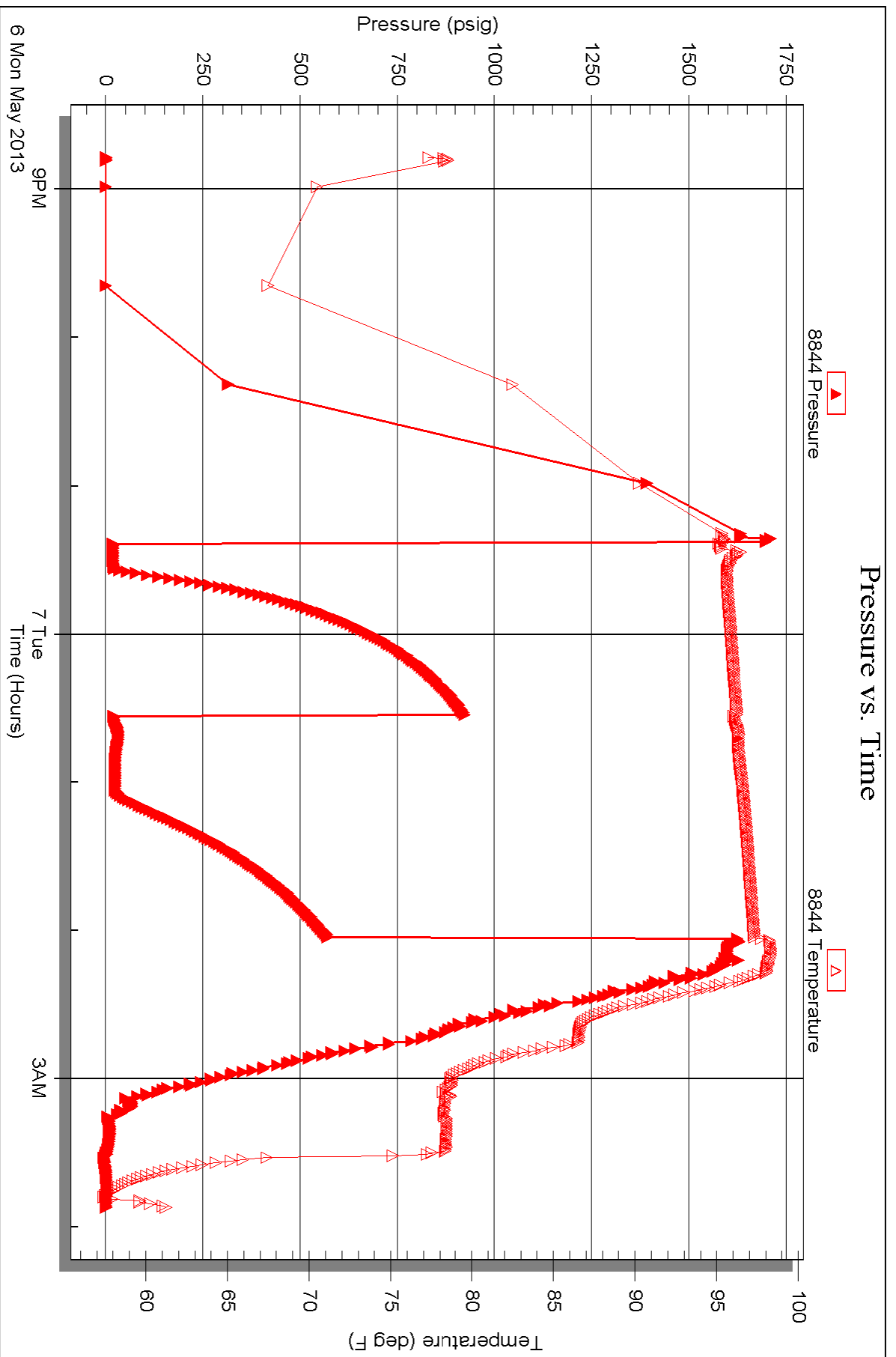
Serial #: 8844

Inside

Liberty Operations & Compl. Inc.

Richards #1

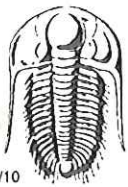
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 53618

Printed: 2013.05.20 @ 08:20:35



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53776

Well Name & No. Richards # 1 Test No. 1 Date 5-5-13
 Company Liberty Operations & Compl. Inc Elevation 1955 KB 1950 GL
 Address 308 W ~~Harpville~~ Mill, Plainville, KS 67663
 Co. Rep / Geo. Tony Richardson Rig White Knight
 Location: Sec. 32 Twp. 10s Rge. 17w Co. Rooks State Ks

Interval Tested 3296-3420 Zone Tested ~~Arbuckle~~ KC - "H-L"
 Anchor Length 124 Drill Pipe Run ~~300~~ 3129 Mud Wt. 9.2
 Top Packer Depth 3296 Drill Collars Run 160 Vis 45
 Bottom Packer Depth 3301 Wt. Pipe Run - WL 9.2
 Total Depth 3420 Chlorides 5000 ppm System LCM 1.5

Blow Description 30-FPP - Weak blow, 1" build.
60-FPI - No blow
30-FPP - No blow
90-FPI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>VCCCM</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 98 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1668</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1130</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars	T-Started <u>1348</u>
(C) First Final Flow <u>29</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1735</u>
(D) Initial Shut-In <u>699</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2105</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2339</u>
(F) Second Final Flow <u>36</u>	<input checked="" type="checkbox"/> Mileage <u>47rt 72.85</u>	Comments
(G) Final Shut-In <u>679</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1588</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 60
 Final Flow 30
 Final Shut-In 90

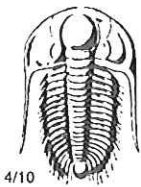
Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1222.85

Sub Total 0
 Total 1222.85
 MP/DST Disc't

Approved By _____ Our Representative Dent or Fij

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53777

Well Name & No. Richards #1 Test No. 2 Date 5-6-13
 Company Liberty Operations & Compl. Inc Elevation 1955 KB 1950 GL
 Address 308 W Mill, Plainville, Ks 67663
 Co. Rep / Geo. Tony Richardson Rig White Knight
 Location: Sec. 32 Twp. 10s Rge. 17w Co. Rooks State Ks

Interval Tested 3400-3485 Zone Tested Conglomerate "L"
 Anchor Length 85 Drill Pipe Run 3400 Mud Wt. 9.1
 Top Packer Depth 3400 Drill Collars Run — Vis 50
 Bottom Packer Depth 3405 Wt. Pipe Run — WL 8.4
 Total Depth 3485 Chlorides 5000 ppm System LCM 2

Blow Description 30 - IFP - Weak blow 1/2" build.
60 - ISI - No blow.
30 - FFP - No blow.
90 - FSI - No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>VSO CM</u>	<u>3</u>		<u>97</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 95 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic <u>1701</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0630</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars	T-Started <u>0748</u>
(C) First Final Flow <u>18</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0925</u>
(D) Initial Shut-In <u>671</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1255</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1457</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>72.85</u>	Comments
(G) Final Shut-In <u>613</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1623</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

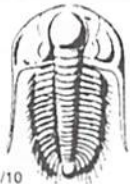
Initial Open 30 Extra Packer
 Initial Shut-In 60 Extra Recorder
 Final Flow 30 Day Standby
 Final Shut-In 90 Accessibility

Sub Total 1222.85

Total 1222.85
 MP/DST Disc't

Approved By _____ Our Representative Daniel F. [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **53618**

4/10

Well Name & No. Richard #1 Test No. 3 Date 5-6-13
 Company Liberty Oper. & Compl. Inc. Elevation 1955 KB 1950 GL
 Address 308 W. Mill Plainville Ks. 67663-2229
 Co. Rep / Geo. Tony Richardson 7852030169 Rig White Knight Drilling
 Location: Sec. 32 Twp. 10^s Rge. 17^w Co. ROOKS State Ks.

Interval Tested 3396 - 3520 Zone Tested L-Cong.
 Anchor Length 124 Drill Pipe Run 3390 Mud Wt. 9.1
 Top Packer Depth 3391 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3396 Wt. Pipe Run 0 WL 8.4
 Total Depth 3520 Chlorides 5000 ppm System LCM 2

Blow Description I FP - Good Surge on Oper / in. Blow
ISIP - No Blow
FFP - Good Surge on Oper No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Oil Speck Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 96 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1704</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>19:48</u>
(B) First Initial Flow <u>16</u>	<input type="checkbox"/> Jars _____	T-Started <u>20:47</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>23:23</u>
(D) Initial Shut-In <u>928</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>02:03</u>
(E) Second Initial Flow <u>20</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>03:53</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>47 RT X 2</u>	Comments <u>called 5-8-13</u>
(G) Final Shut-In <u>576</u>	<input type="checkbox"/> Sampler _____	<u>5:07 AM pickup</u>
(H) Final Hydrostatic <u>1635</u>	<input type="checkbox"/> Straddle _____	<u>Tool</u>

Initial Open <u>10</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>800</u>
	<input checked="" type="checkbox"/> Day Standby <u>1d 1h</u>	Total <u>2095.70</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1295.70</u>	

Approved By _____ Our Representative [Signature]

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HEATH'S CELL

QUALITY WELL SERVICE, INC.

384-5422
5882

Federal Tax I.D. # 481187368

OFFICE

Home Office 324 Simpson St., Pratt, KS 67124

Heath's Cell 620-727-3410

Rich's Cell 620-727-3409

Office / Fax 620-672-3663

Brady's Cell 620-727-6964

Date	5-7-13	Sec.	32	Twp.	10	Range	17	County	Boke	State	Ks	On Location	11/15	Finish	6'3"
Lease	Richard	Well No.	41	Location	Phonetic KS SS to Rd 11										
Contractor	White Knight Drills	Owner	E to D. End S to Rd 11 D. N. H.												
Type Job	PTA	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Hole Size	7 7/8	T.D.	3600'												
Csg.	4 1/2 DP	Depth	Charge 213 ECTH												
Tbg. Size		Depth	Street												
Tool		Depth	City												
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.												
Meas Line		Displace	Cement Amount Ordered 2555x 60/4, Poz												
EQUIPMENT															
Pumptrk	8	No.	Beard	Common 153											
Bulktrk	7	No.	M. K.	Poz. Mix 102											
Bulktrk		No.		Gel. 9											
Pickup		No.	FD25	Calcium											
JOB SERVICES & REMARKS															
Rat Hole	3DS	Hulls													
Mouse Hole		Salt													
Centralizers		Flowseal 64"													
Baskets		Kol-Seal													
DV or Port Collar		Mud CLR 48													
1st Plug	3552'	CFL-117 or CD110 CAF 38													
2nd Plug	1260'	Sand													
3rd Plug	675'	Handling 264													
4th Plug	255'	Mileage 20													
5th Plug	40'	FLOAT EQUIPMENT													
6th Plug	40'	Guide Shoe													
7th Plug	40'	Centralizer													
8th Plug	40'	Baskets													
9th Plug	40'	AFU Inserts													
10th Plug	40'	Float Shoe													
11th Plug	40'	Latch Down													
12th Plug	40'	Lmg 20													
13th Plug	40'	Pumptrk Charge PTA													
14th Plug	40'	Mileage 20													
15th Plug	40'	Tax													
16th Plug	40'	Discount													
17th Plug	40'	Total Charge													
Signature	Taylor Printing, Inc.														

QUALITY WELL SERVICE, INC.

5875

Federal Tax I.D. # 481187368

Home Office 324 Simpson St., Pratt, KS 67124
 Heath's Cell 620-727-3410
 Office / Fax 620-672-3663

Rich's Cell 620-727-3409
 Brady's Cell 620-727-6964

Date	4-26-13	Sec.	32	Twp.	10	Range	17	County	ROCKE	State	KS	On Location	2:30 PM	Finish	1:00 AM
Lease	Richardson	Well No.	21	Location		Plainville, KS to Rd CC E to 25th									
Contractor	PRECESSION Drilling														
Type Job	SURFACE														
Hole Size	12 1/4	T.D.	209												
Csg.	8 5/8	Depth	208												
Tbg. Size		Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint	30												
Meas Line		Displace	12												
EQUIPMENT															
Pumptrk	3	No.	Richardson												
Bulktrk	10	No.	TODAY												
Bulktrk		No.													
Pickup		No.													
JOB SERVICES & REMARKS															
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DV or Port Collar															
	200	H's 8 5/8 20' CSS													
	SEF 2	200'													
	H's 8 5/8	20' CSS													
	Mix & Pump	150x Common													
	2 1/2 GAL 3% CL														
	1 3/4 GAL 1.36 H3														
	Diso	12 Balls Total													
	Close Valve	200' 12:25													
	1000 Circ Flow	503													
	[REDACTED]														
	Pumptrk Charge	SURFACE													
	Mileage	20													
		LHW 20													
		AFU Inserts													
		Centralizer													
		Baskets													
		Float Shoe													
		Latch Down													
		Tax													
		Discount													
		Total Charge													
Signature: Frank Todd Richardson Please Call Again															