



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Justin Clegg/ Terry

Smith-Rebein Unit #1

3-25s-24w Ford,KS

Start Date: 2012.06.02 @ 11:20:51

End Date: 2012.06.02 @ 18:27:06

Job Ticket #: 47552 DST #: 1

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

Printed: 2012.06.12 @ 12:09:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

ATTN: Justin Clegg/ Terry

Job Ticket: 47552

DST#: 1

Test Start: 2012.06.02 @ 11:20:51

GENERAL INFORMATION:

Formation: **Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:02:06

Time Test Ended: 18:27:06

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 4632.00 ft (KB) To 4705.00 ft (KB) (TVD)

Reference Elevations: 2393.00 ft (KB)

Total Depth: 4705.00 ft (KB) (TVD)

2382.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Outside

Press @ Run Depth: 55.99 psig @ 4633.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.02

End Date:

2012.06.02

Last Calib.: 2012.06.02

Start Time: 11:20:56

End Time:

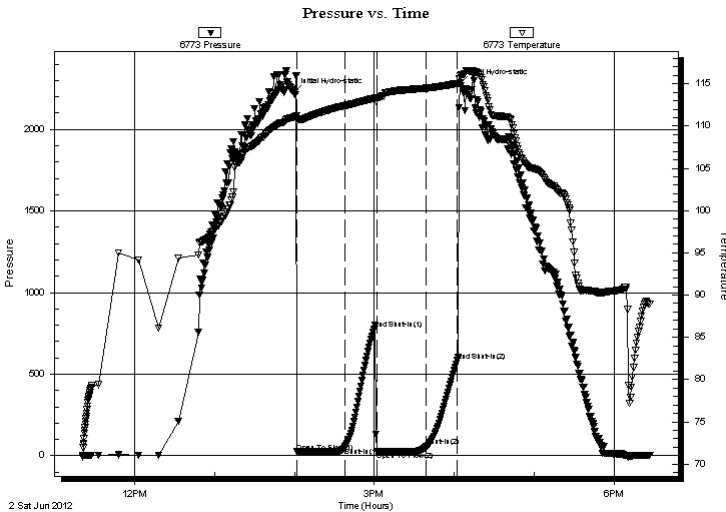
18:27:05

Time On Btm: 2012.06.02 @ 13:59:51

Time Off Btm: 2012.06.02 @ 16:04:36

TEST COMMENT: IF: Weak surface blow
IS: No blow back
FF: No blow Flushed tool
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2225.33	111.06	Initial Hydro-static
3	23.62	110.86	Open To Flow (1)
38	52.19	112.41	Shut-In(1)
60	778.11	113.29	End Shut-In(1)
63	26.20	113.31	Open To Flow (2)
100	55.99	114.49	Shut-In(2)
123	582.25	115.04	End Shut-In(2)
125	2280.87	115.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

Job Ticket: 47552

DST#: 1

ATTN: Justin Clegg/ Terry

Test Start: 2012.06.02 @ 11:20:51

Tool Information

Drill Pipe:	Length: 4610.00 ft	Diameter: 3.80 inches	Volume: 64.67 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 64.67 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4632.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	73.00 ft				
Tool Length:	102.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4604.00	
Shut In Tool	5.00			4609.00	
Hydraulic tool	5.00			4614.00	
Jars	5.00			4619.00	
Safety Joint	3.00			4622.00	
Packer	5.00			4627.00	29.00 Bottom Of Top Packer
Packer	5.00			4632.00	
Stubb	1.00			4633.00	
Recorder	0.00	6773	Outside	4633.00	
Recorder	0.00	6755	Inside	4633.00	
Change Over Sub	0.50			4633.50	
Drill Pipe	62.00			4695.50	
Change Over Sub	0.50			4696.00	
Perforations	6.00			4702.00	
Bullnose	3.00			4705.00	73.00 Bottom Packers & Anchor

Total Tool Length: 102.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

Job Ticket: 47552

DST#: 1

ATTN: Justin Clegg/ Terry

Test Start: 2012.06.02 @ 11:20:51

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.68 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

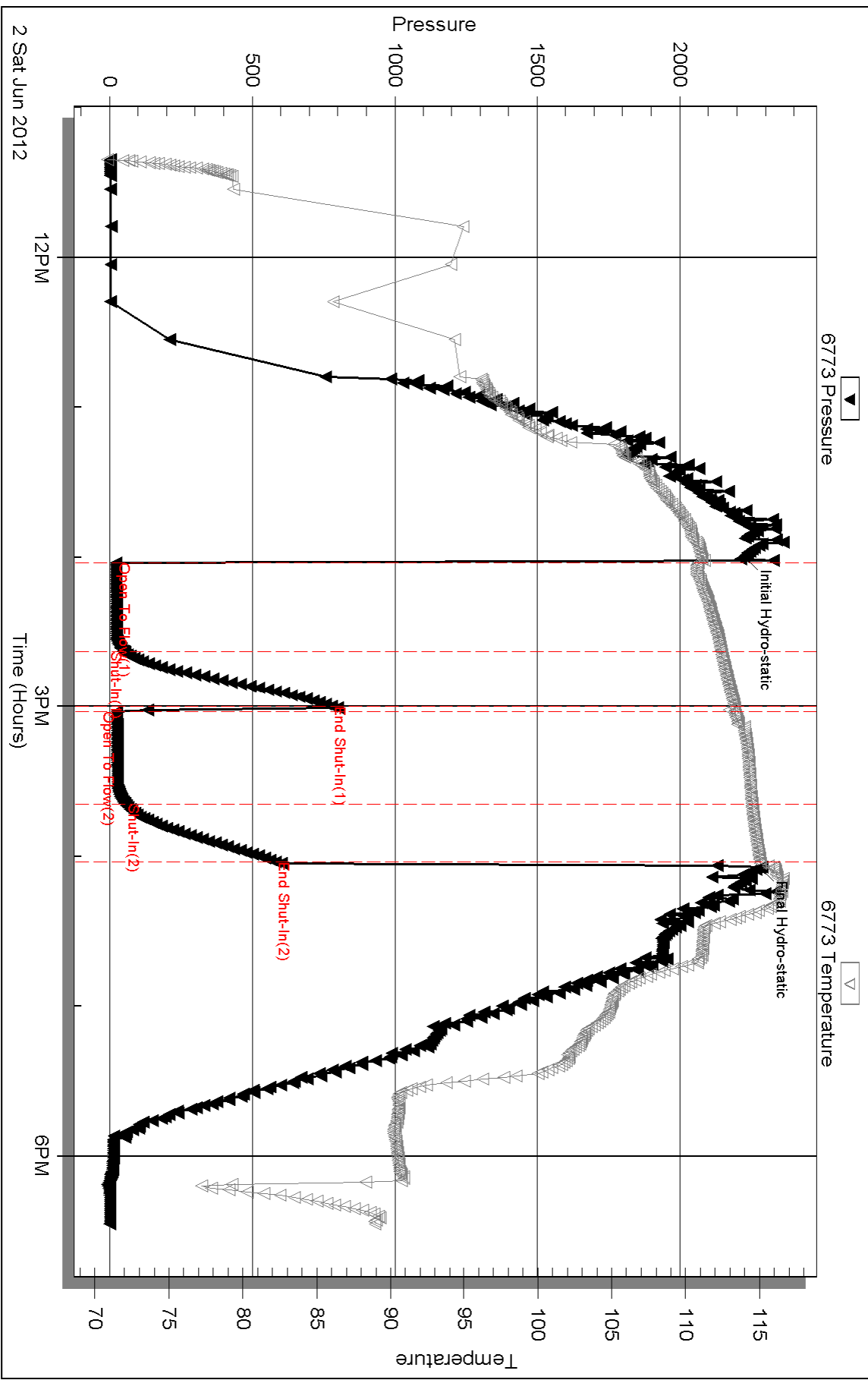
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



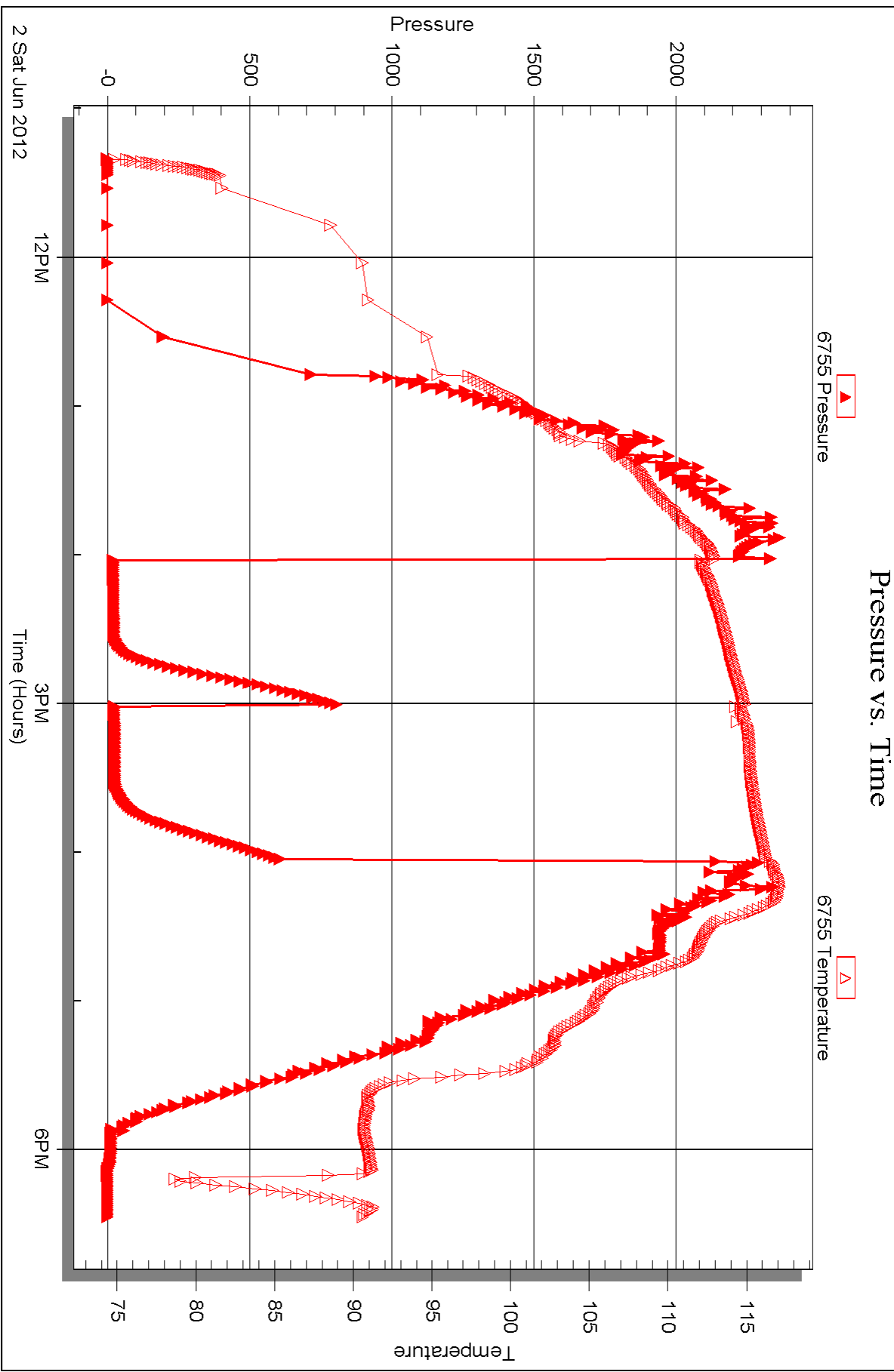
Serial #: 6755

Inside

Richie Exploration Inc

Smith-Rebein Unit #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Justin Clegg/ Terry

Smith-Rebein Unit #1

3-25s-24w Ford,KS

Start Date: 2012.06.03 @ 05:49:17

End Date: 2012.06.03 @ 09:53:02

Job Ticket #: 47553 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.12 @ 12:08:17

Ritchie Exploration Inc

3-25s-24w Ford,KS

Smith-Rebein Unit #1

DST # 2

Mississippi

2012.06.03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

ATTN: Justin Clegg/ Terry

Job Ticket: 47553

DST#: 2

Test Start: 2012.06.03 @ 05:49:17

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 09:53:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 4687.00 ft (KB) To 4755.00 ft (KB) (TVD)

Reference Elevations: 2393.00 ft (KB)

Total Depth: 4755.00 ft (KB) (TVD)

2382.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6773 Outside

Press @ Run Depth: psig @ 4688.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.03

End Date:

2012.06.03

Last Calib.:

2012.06.03

Start Time:

05:49:22

End Time:

09:53:02

Time On Btm:

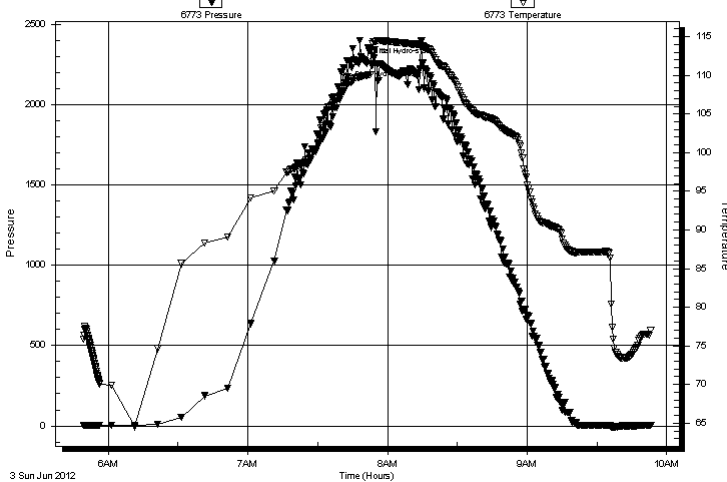
2012.06.03 @ 07:50:32

Time Off Btm:

2012.06.03 @ 08:14:47

TEST COMMENT: MISS RUN PACKER FAILED

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2263.40	109.97	Initial Hydro-static
25	2263.45	113.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	MUD	3.09

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

Job Ticket: 47553

DST#: 2

ATTN: Justin Clegg/ Terry

Test Start: 2012.06.03 @ 05:49:17

Tool Information

Drill Pipe:	Length: 4668.00 ft	Diameter: 3.80 inches	Volume: 65.48 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 65.48 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4687.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	97.00 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			4659.00	
Shut In Tool	5.00			4664.00	
Hydraulic tool	5.00			4669.00	
Jars	5.00			4674.00	
Safety Joint	3.00			4677.00	
Packer	5.00			4682.00	29.00 Bottom Of Top Packer
Packer	5.00			4687.00	
Stubb	1.00			4688.00	
Recorder	0.00	6773	Outside	4688.00	
Recorder	0.00	6755	Inside	4688.00	
Change Over Sub	0.50			4688.50	
Drill Pipe	31.00			4719.50	
Change Over Sub	0.50			4720.00	
Perforations	32.00			4752.00	
Bullnose	3.00			4755.00	68.00 Bottom Packers & Anchor

Total Tool Length: 97.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

Job Ticket: 47553

DST#: 2

ATTN: Justin Clegg/ Terry

Test Start: 2012.06.03 @ 05:49:17

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.68 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	MUD	3.086

Total Length: 220.00 ft Total Volume: 3.086 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

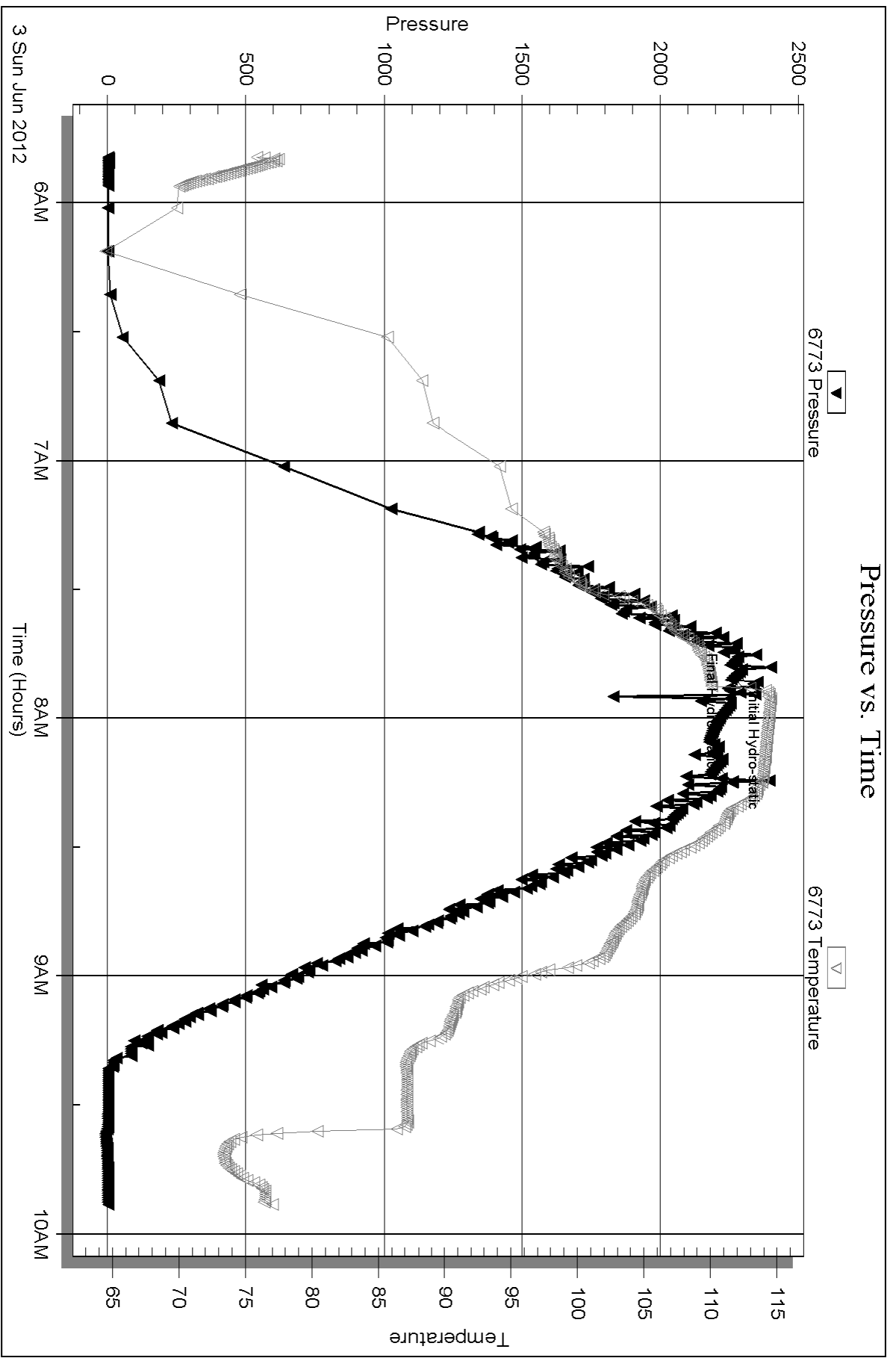
Recovery Comments:

Serial #: 6773

Outside Ritchie Exploration Inc

Smith-Rebein Unit #1

DST Test Number: 2



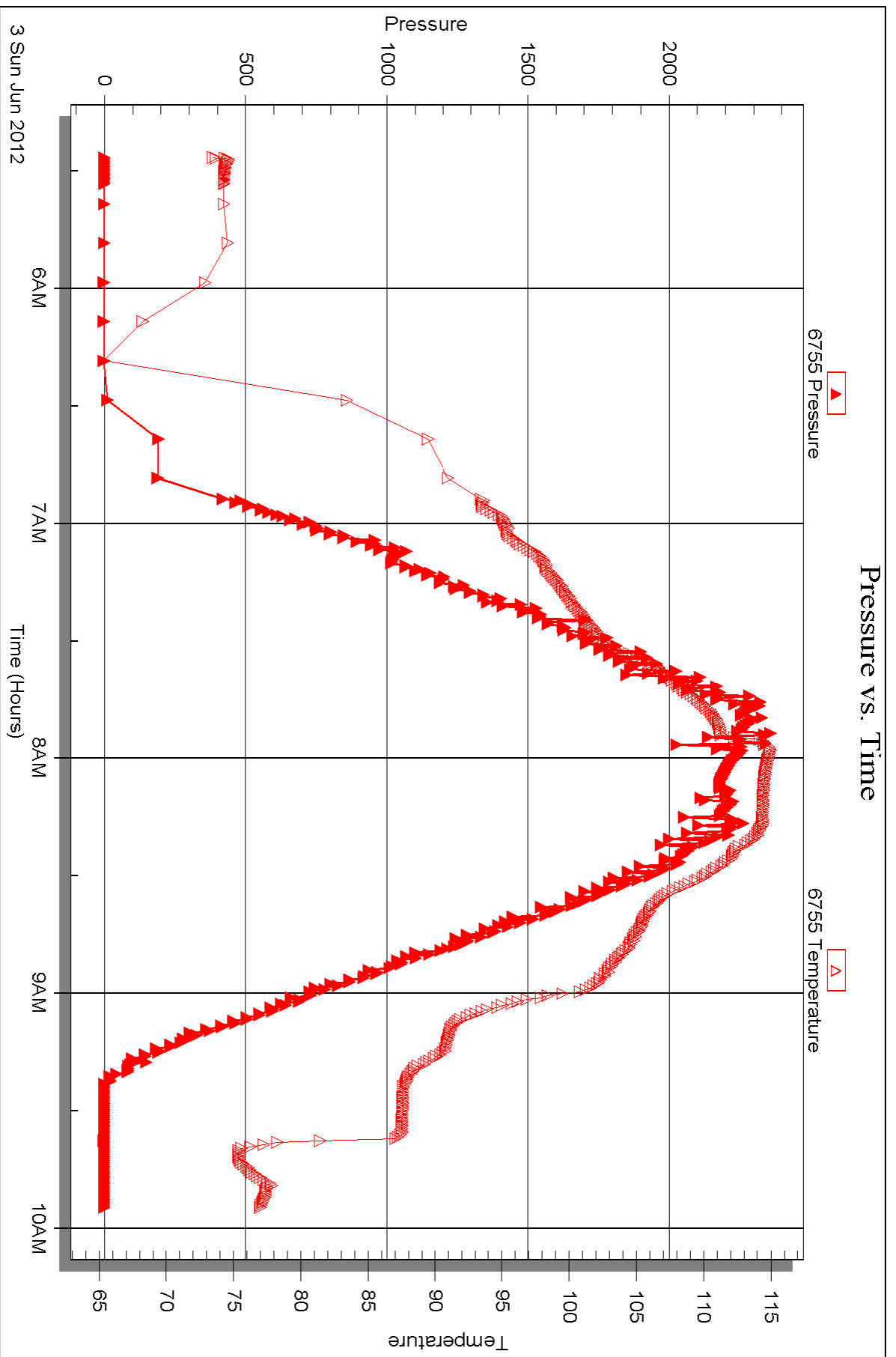
Serial #: 6755

Inside

Ritchie Exploration Inc

Smith-Rebein Unit #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

PO Box 783188
Wichita KS 67278

ATTN: Justin Clegg/ Terry

Smith-Rebein Unit #1

3-25s-24w Ford,KS

Start Date: 2012.06.03 @ 10:28:37

End Date: 2012.06.03 @ 18:49:52

Job Ticket #: 47554 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.06.12 @ 12:07:33

Ritchie Exploration Inc

3-25s-24w Ford,KS

Smith-Rebein Unit #1

DST # 3

Mississippi

2012.06.03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

ATTN: Justin Clegg/ Terry

Job Ticket: 47554

DST#: 3

Test Start: 2012.06.03 @ 10:28:37

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:03:07

Time Test Ended: 18:49:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 4724.00 ft (KB) To 4755.00 ft (KB) (TVD)

Reference Elevations: 2393.00 ft (KB)

Total Depth: 4755.00 ft (KB) (TVD)

2382.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 6755 Inside

Press @ Run Depth: 81.44 psig @ 4725.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.06.03

End Date:

2012.06.03

Last Calib.:

2012.06.03

Start Time: 10:28:42

End Time:

18:49:51

Time On Btm:

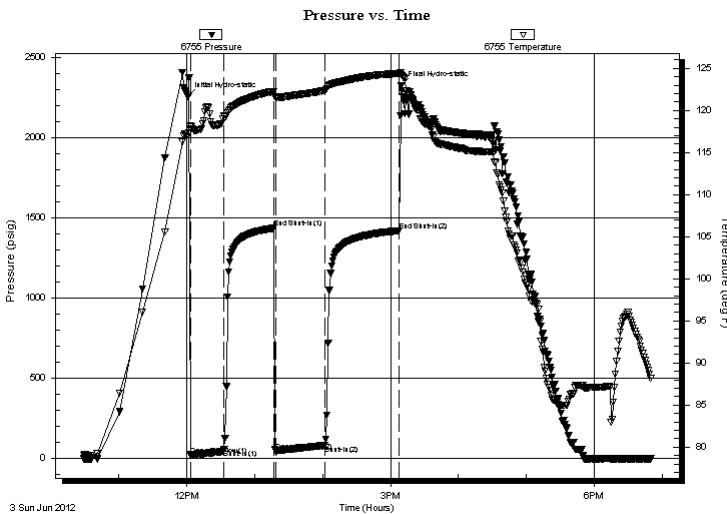
2012.06.03 @ 12:00:52

Time Off Btm:

2012.06.03 @ 15:09:22

TEST COMMENT: IF: Strong blow BOB 26 min
IS: Weak surface blow back
FF: Strong blow BOB 21 min
FS: Weak blow back 1"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.44	117.24	Initial Hydro-static
3	23.04	118.20	Open To Flow (1)
32	57.95	119.36	Shut-In(1)
76	1436.12	122.27	End Shut-In(1)
78	45.47	121.57	Open To Flow (2)
121	81.44	122.40	Shut-In(2)
187	1420.28	124.39	End Shut-In(2)
189	2322.02	124.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	OIL	1.40
90.00	O,W,M 5%oil 45%w ater 50% mud	1.26

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

ATTN: Justin Clegg/ Terry

Job Ticket: 47554

DST#: 3

Test Start: 2012.06.03 @ 10:28:37

Tool Information

Drill Pipe:	Length: 4699.00 ft	Diameter: 3.80 inches	Volume: 65.91 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 65.91 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4724.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 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			4696.00	
Shut In Tool	5.00			4701.00	
Hydraulic tool	5.00			4706.00	
Jars	5.00			4711.00	
Safety Joint	3.00			4714.00	
Packer	5.00			4719.00	29.00 Bottom Of Top Packer
Packer	5.00			4724.00	
Stubb	1.00			4725.00	
Recorder	0.00	6773	Outside	4725.00	
Recorder	0.00	6755	Inside	4725.00	
Perforations	27.00			4752.00	
Bullnose	3.00			4755.00	31.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

3-25s-24w Ford,KS

PO Box 783188
Wichita KS 67278

Smith-Rebein Unit #1

Job Ticket: 47554

DST#: 3

ATTN: Justin Clegg/ Terry

Test Start: 2012.06.03 @ 10:28:37

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	OIL	1.403
90.00	O,W,M 5%oil 45%w ater 50% mud	1.262

Total Length: 190.00 ft

Total Volume: 2.665 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6755

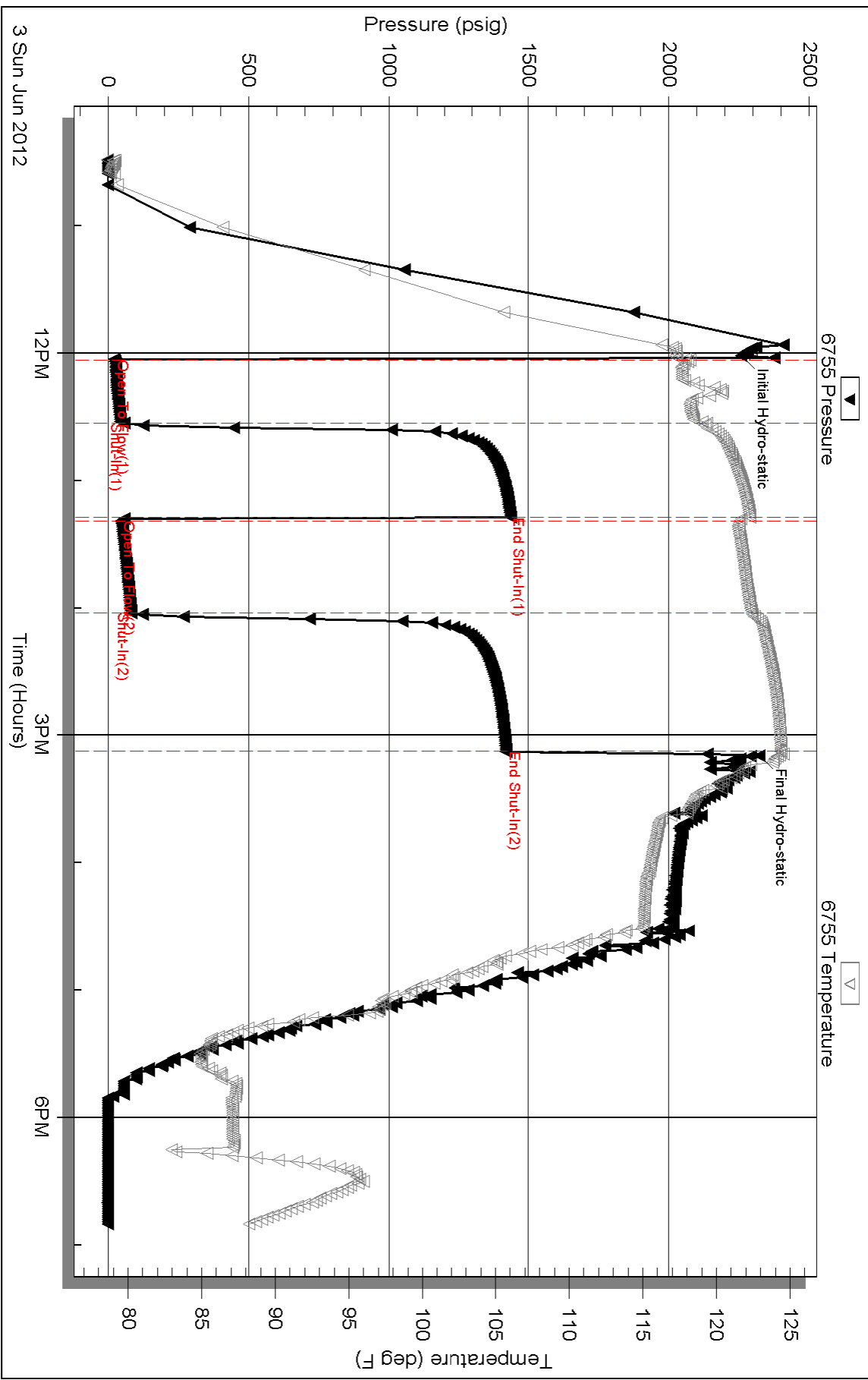
Inside

Richie Exploration Inc

Smith-Rebein Unit #1

DST Test Number: 3

Pressure vs. Time

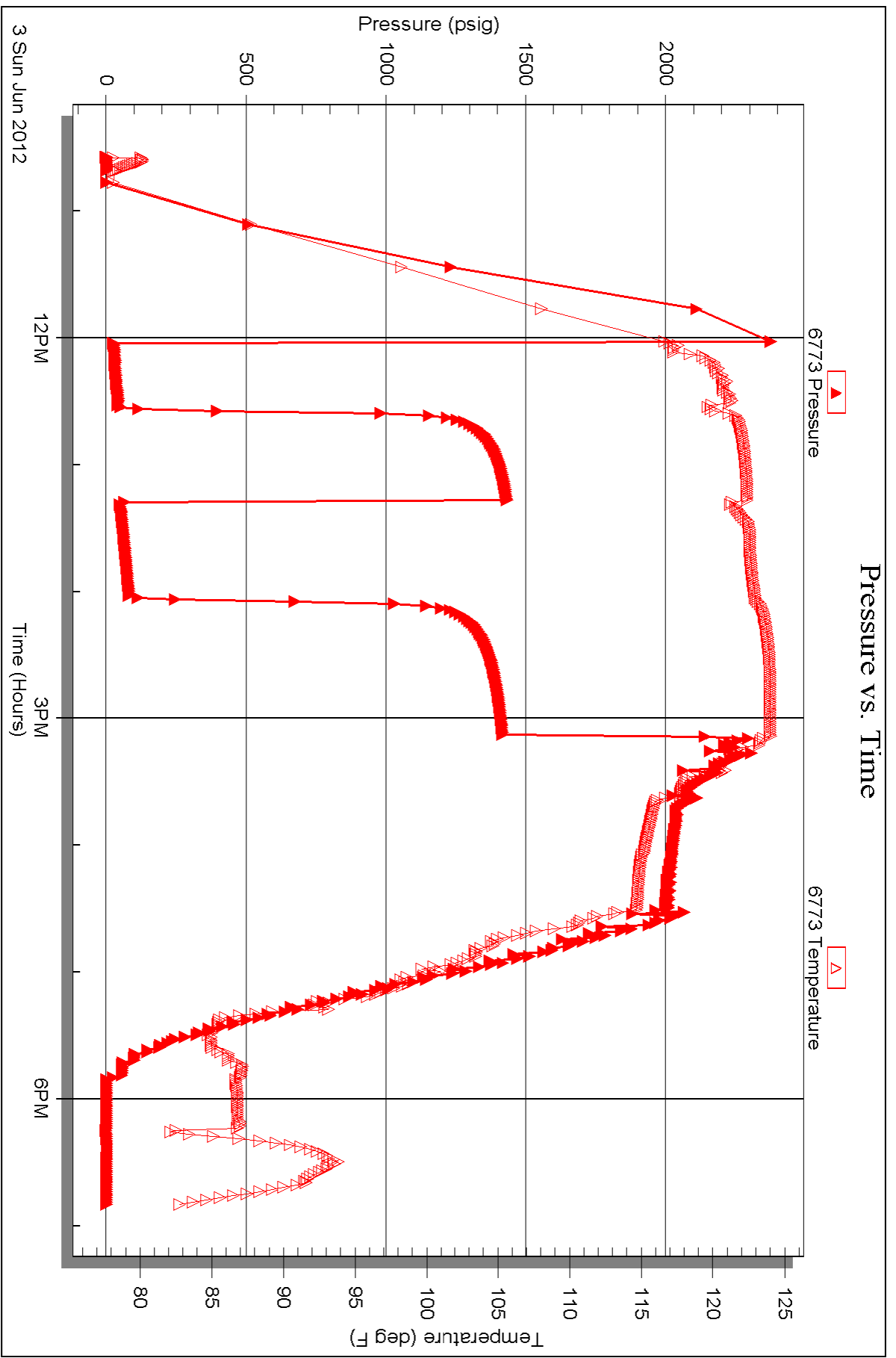


Serial #: 6773

Outside Ritchie Exploration Inc

Smith-Rebein Unit #1

DST Test Number: 3





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47552

Well Name & No. Smith-Rebein Unit #1 Test No. 1 Date 6-2-12
 Company Ritchie exploration INC Elevation 2393 KB 2382 GL
 Address 8100 E 22ND ST N 700 PO BOX 783188 WICHITA KS 67278
 Co. Rep / Geo. Justin Clegg / Terry McClead Rig Duke #10
 Location: Sec. 3 Twp. 25S Rge. 24W Co. Ford State KS

Interval Tested 4632 - 4705 Zone Tested Cherokee
 Anchor Length 73' Drill Pipe Run 4605 Mud Wt. 9.2
 Top Packer Depth 4627 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4632 Wt. Pipe Run 0 WL 10.7
 Total Depth 4705 Chlorides 4800 ppm System LCM 3F

Blow Description IF: weak surface blow
LSI: NO blow back
FF: NO blow Flushed tool
FSL: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>MUD</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 110 Gravity - API RW - @ - °F Chlorides 4800 ppm

(A) Initial Hydrostatic <u>2225</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>11:00</u>
(B) First Initial Flow <u>23</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>11:20</u>
(C) First Final Flow <u>52</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:02</u>
(D) Initial Shut-In <u>778</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>16:00</u>
(E) Second Initial Flow <u>26</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>18:20</u>
(F) Second Final Flow <u>55</u>	<input checked="" type="checkbox"/> Mileage <u>180 miles</u> 279	Comments
(G) Final Shut-In <u>582</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2280</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>2104</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>2104</u>	

Approved By Justin Clegg Our Representative Chris

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47553

4/10

Well Name & No. Smith - Bebein Unit #1 Test No. 2 Date 6-3-12
 Company Ritchie Exploration Inc Elevation 2393 KB 2382 GL
 Address 8100 E 22ND STN 700 Pobox 783188 Wichita KS 67278
 Co. Rep / Geo. Justin Clegg / Terry McLeod Rig Duke #10
 Location: Sec. 3 Twp. 25S Rge. 24W Co. Ford State KS

Interval Tested 4687 - 4755 Zone Tested MISS
 Anchor Length 68' Drill Pipe Run 4668 Mud Wt. 9.2
 Top Packer Depth 4682 Drill Collars Run 0 Vis 52
 Bottom Packer Depth 4687 Wt. Pipe Run 0 WL 10.7
 Total Depth 4755 Chlorides 4800 ppm System LCM 3#
 Blow Description IF: MISS RUN PACKER FAIL
FSI:
FF:
FSE

Rec	Feet of	%gas	%oil	%water	%mud
<u>220'</u>	<u>MUDD</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 _____ BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2263 Test 1050 T-On Location 5:30
 (B) First Initial Flow _____ Jars 250 T-Started _____
 (C) First Final Flow _____ Safety Joint 75 T-Open _____
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 9:00
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 10:10
 (F) Second Final Flow _____ Mileage 180 miles 279 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2263 Shale Packer 250 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1904

Approved By Terry McLeod Our Representative Ch. [Signature]
 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47554

4/10

Well Name & No. Smith - Rebein Unit #1 Test No. 3 Date 6-3-12
 Company Ritchie Exploration INC Elevation 2393 KB 2382 GL
 Address 8100 E 22ND ST N700 Pobox 783188 Wichita KS 67278
 Co. Rep / Geo. Justin Clegg / Terry McLeod Rig Duke #10
 Location: Sec. 3 Twp. 25S Rge. 24W Co. Ford State KS

Interval Tested 4724 - 4755 Zone Tested MIS
 Anchor Length 31' Drill Pipe Run 4699 Mud Wt. 9.3
 Top Packer Depth 4719 Drill Collars Run 0 Vis 60
 Bottom Packer Depth 4724 Wt. Pipe Run 0 WL 8.0
 Total Depth 4755 Chlorides 4900 ppm System LCM 2#

Blow Description IF: STRONG blow BOB 26 min
ISI: weak SURFACE blow back
FF: STRONG blow BOB 21 min
FSD: weak blow back 1"

Rec	Feet of	%gas	%oil	%water	%mud
90	100' oil		100		
90	0, W, M	5		45	50
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	<u>190'</u>	BHT <u>125</u>	Gravity <u>46</u>	API RW <u>.05 @ 90 °F</u>	Chlorides <u>125,000</u> ppm

(A) Initial Hydrostatic 2257 Test 1250 T-On Location 5:30
 (B) First Initial Flow 23 Jars 250 T-Started 10:28
 (C) First Final Flow 57 Safety Joint 75 T-Open 12:03
 (D) Initial Shut-In 1436 Circ Sub T-Pulled 15:05
 (E) Second Initial Flow 45 Hourly Standby T-Out 18:15
 (F) Second Final Flow 81 Mileage
 (G) Final Shut-In 1420 Sampler
 (H) Final Hydrostatic 2322 Straddle Ruined Shale Packer
 Shale Packer 250 Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1825
 Accessibility MP/DST Disc't

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Sub Total 1825

Approved By Justin Clegg Our Representative Chris St...

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