



DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 873
Russell KS 67665

ATTN: Brad Hutchison

Abercrombie #1

30-15s-12w Russell,KS

Start Date: 2013.07.21 @ 12:52:14

End Date: 2013.07.21 @ 17:10:53

Job Ticket #: 53999 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.24 @ 14:25:58



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 53999

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 12:52:14

GENERAL INFORMATION:

Formation: **Tronoto-LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:15:04

Time Test Ended: 17:10:53

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 41

Interval: 2963.00 ft (KB) To 3100.00 ft (KB) (TVD)

Reference Elevations: 1878.00 ft (KB)

Total Depth: 3100.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 106.80 psig @ 2970.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.21

End Date:

2013.07.21

Last Calib.:

2013.07.21

Start Time: 12:52:15

End Time:

17:10:54

Time On Btm:

2013.07.21 @ 14:14:24

Time Off Btm:

2013.07.21 @ 16:05:54

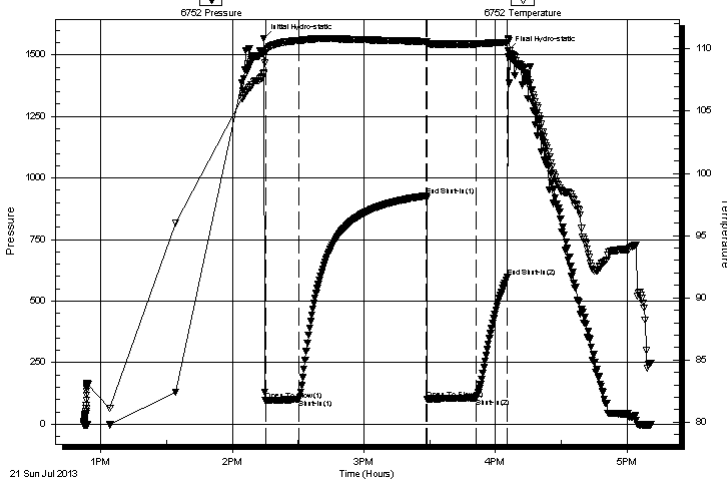
TEST COMMENT: Slid 10' to bottom Fair surface blow built to 4 in.

Dead no blow back

Dead no blow

Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

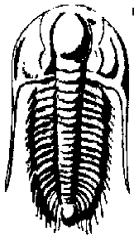
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1566.86	108.06	Initial Hydro-static
1	95.75	109.72	Open To Flow (1)
16	100.70	110.67	Shut-In(1)
75	927.08	110.60	End Shut-In(1)
75	101.96	110.31	Open To Flow (2)
97	106.80	110.40	Shut-In(2)
111	599.15	110.52	End Shut-In(2)
112	1517.74	110.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	100%M	0.70

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 53999

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 12:52:14

GENERAL INFORMATION:

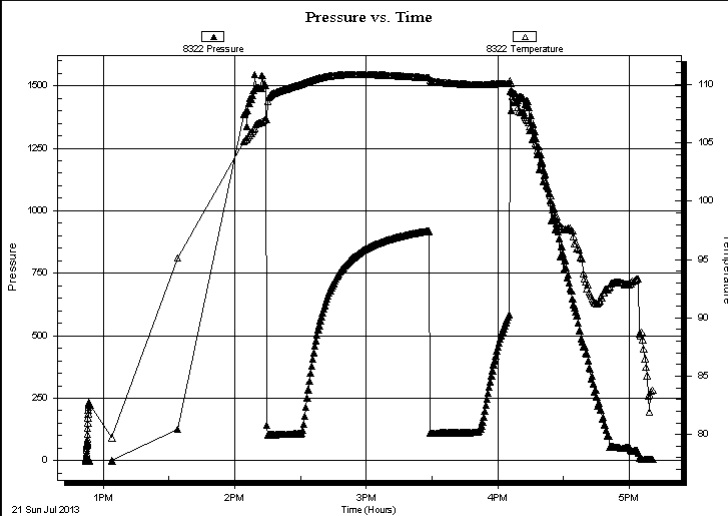
Formation: **Tronoto-LKC C**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 14:15:04 Tester: Tate Lang
Time Test Ended: 17:10:53 Unit No: 41
Interval: 2963.00 ft (KB) To 3100.00 ft (KB) (TVD) Reference Elevations: 1878.00 ft (KB)
Total Depth: 3100.00 ft (KB) (TVD) 1871.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8322

Outside

Press @ Run Depth: psig @ 2970.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.07.21 End Date: 2013.07.21 Last Calib.: 2013.07.21
Start Time: 12:52:01 End Time: 17:10:50 Time On Btm:
Time Off Btm:

TEST COMMENT: Slid 10' to bottom Fair surface blow built to 4 in.
Dead no blow back
Dead no blow
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
50.00	100%M	0.70

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 53999

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 12:52:14

Tool Information

Drill Pipe:	Length: 2946.00 ft	Diameter: 3.80 inches	Volume: 41.32 bbl	Tool Weight: 2000.00 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: 56000.00 lb
			<u>Total Volume: 41.32 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2963.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	137.00 ft			
Tool Length:	157.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2948.00	
Hydraulic tool	5.00			2953.00	
Packer	5.00			2958.00	20.00 Bottom Of Top Packer
Packer	5.00			2963.00	
Stubb	1.00			2964.00	
Perforations	5.00			2969.00	
Change Over Sub	1.00			2970.00	
Recorder	0.00	6752	Inside	2970.00	
Recorder	0.00	8322	Outside	2970.00	
Blank Spacing	124.00			3094.00	
Change Over Sub	1.00			3095.00	
Perforations	2.00			3097.00	
Bullnose	3.00			3100.00	137.00 Bottom Packers & Anchor

Total Tool Length: 157.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 53999

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 12:52:14

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	100%M	0.701

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

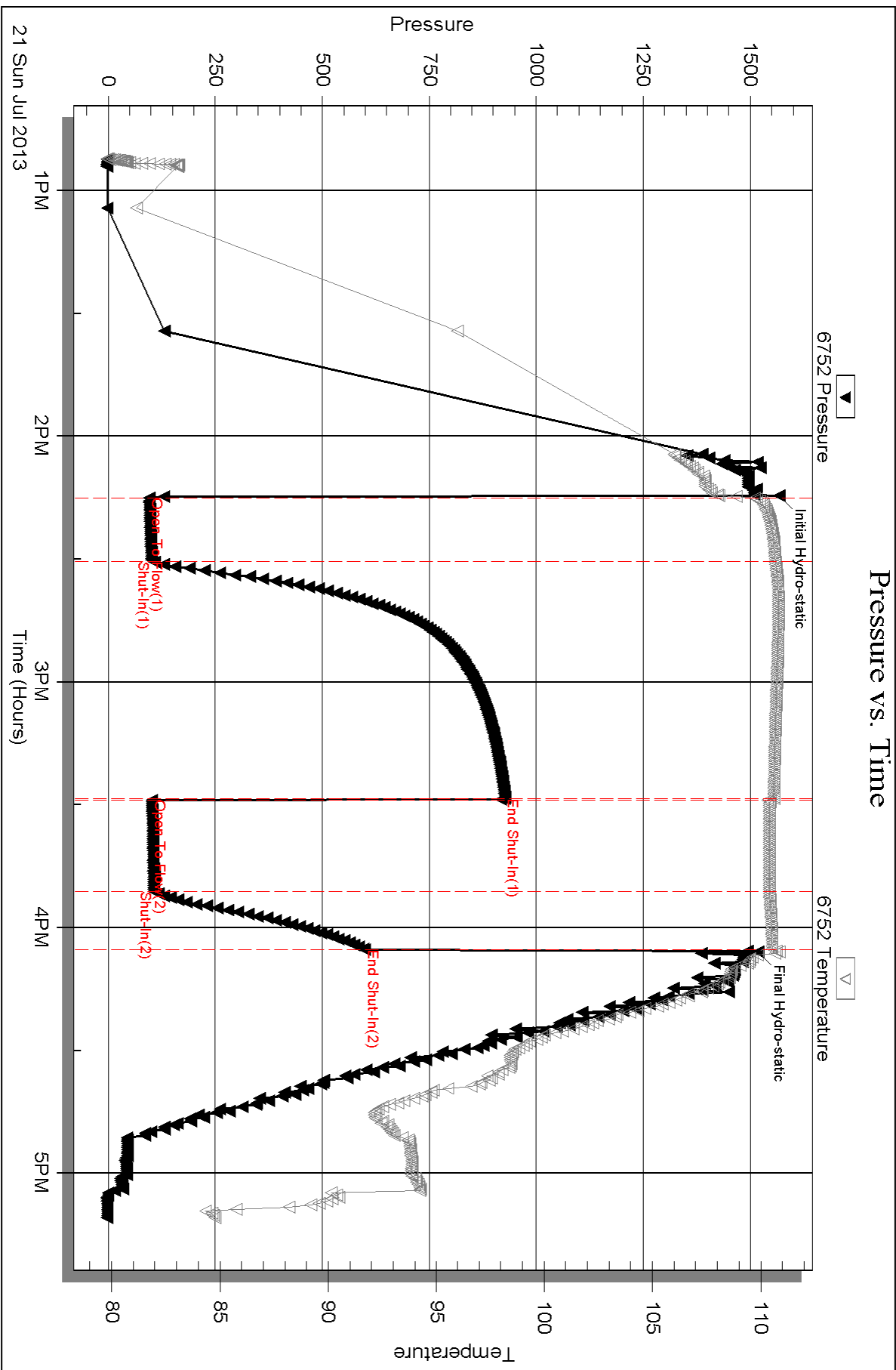
Serial #: 6752

Inside

Prospect Oil & Gas

Abercrombie #1

DST Test Number: 1

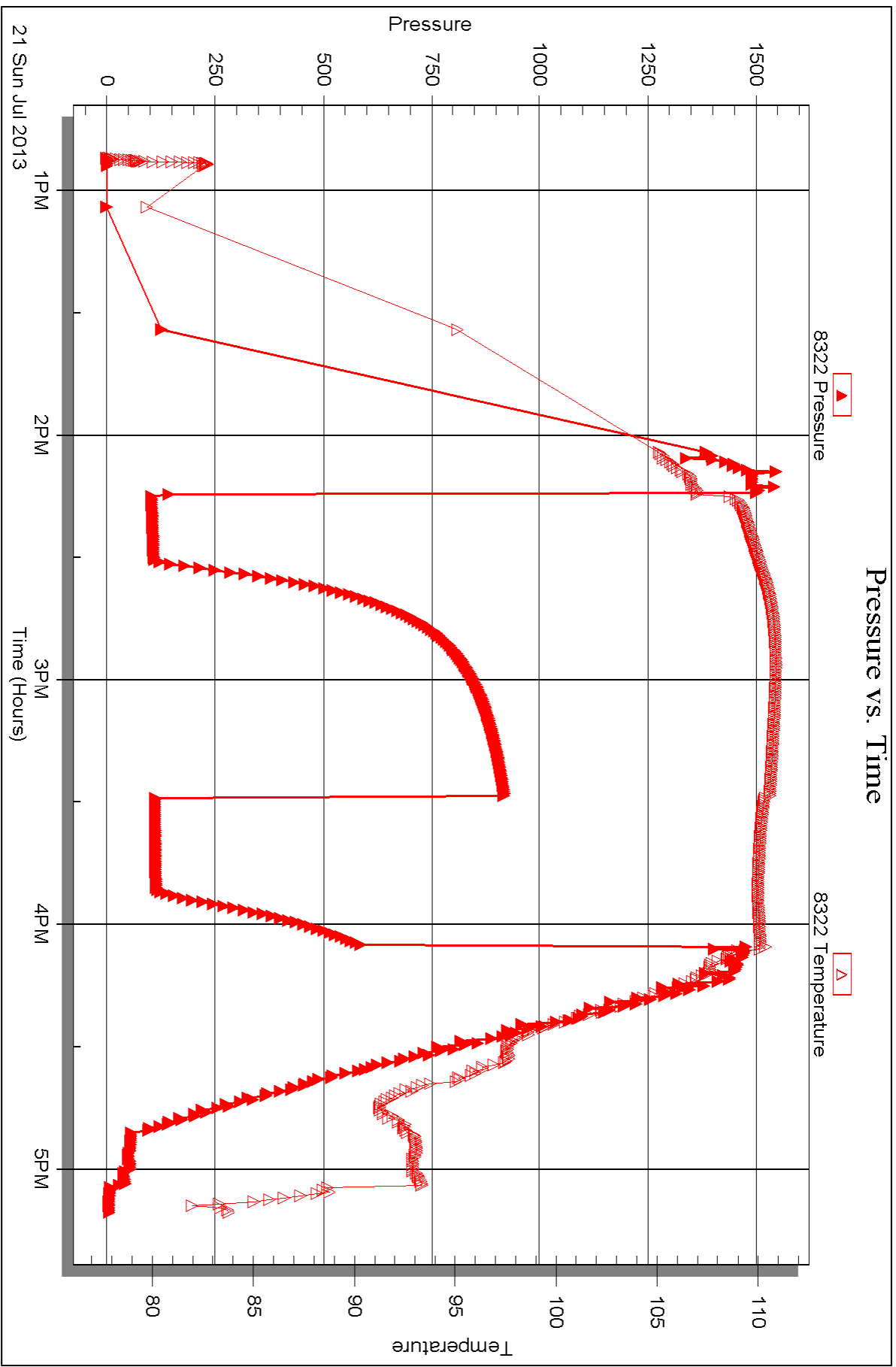


Serial #: 8322

Outside Prospect Oil & Gas

Abercrombie #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 873
Russell KS 67665

ATTN: Brad Hutchison

Abercrombie #1

30-15s-12w Russell,KS

Start Date: 2013.07.21 @ 20:28:12

End Date: 2013.07.21 @ 23:59:32

Job Ticket #: 54000 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.24 @ 14:25:24



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54000

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 20:28:12

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:22

Time Test Ended: 23:59:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 41

Interval: 3066.00 ft (KB) To 3100.00 ft (KB) (TVD)

Reference Elevations: 1878.00 ft (KB)

Total Depth: 3100.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 18.10 psig @ 3067.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.21

End Date:

2013.07.21

Last Calib.:

2013.07.22

Start Time: 20:28:13

End Time:

23:59:32

Time On Btm:

2013.07.21 @ 21:47:12

Time Off Btm:

2013.07.21 @ 22:50:22

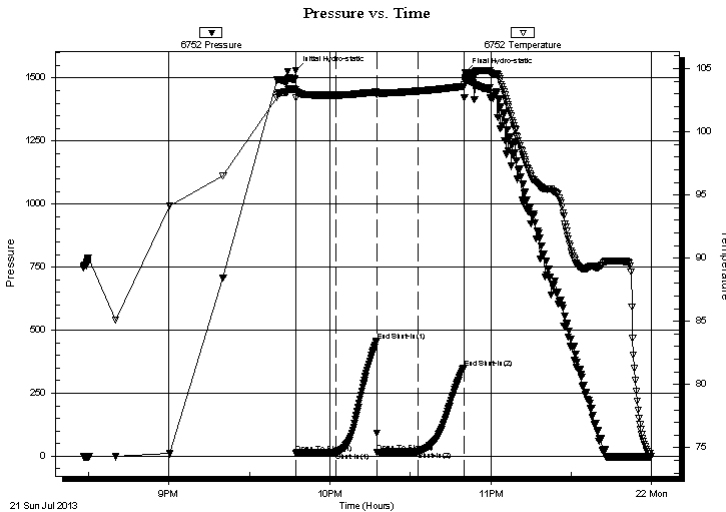
TEST COMMENT: Surged w hen tool open the died in 15 seconds.

Dead no blow back

Dead no blow

Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1530.26	103.36	Initial Hydro-static
1	12.58	102.66	Open To Flow (1)
15	15.68	102.90	Shut-In(1)
31	455.79	103.14	End Shut-In(1)
31	16.73	103.05	Open To Flow (2)
46	18.10	103.22	Shut-In(2)
63	350.36	103.58	End Shut-In(2)
64	1522.51	103.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell, KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54000

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 20:28:12

GENERAL INFORMATION:

Formation: **LKC B-C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:47:22

Time Test Ended: 23:59:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 41

Interval: **3066.00 ft (KB) To 3100.00 ft (KB) (TVD)**

Reference Elevations: 1878.00 ft (KB)

Total Depth: 3100.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8322 Outside

Press @ Run Depth: psig @ 3067.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.21

End Date:

2013.07.21

Last Calib.:

2013.07.22

Start Time: 20:28:03

End Time:

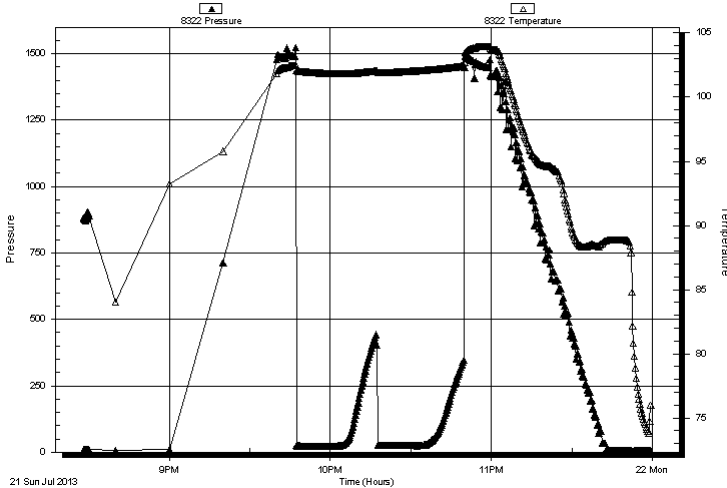
23:59:22

Time On Btm:

Time Off Btm:

TEST COMMENT: Surged w hen tool open the died in 15 seconds.
Dead no blow back
Dead no blow
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

30-15s-12w Russell, KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54000

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 20:28:12

Tool Information

Drill Pipe:	Length: 3070.00 ft	Diameter: 3.80 inches	Volume: 43.06 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 43.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3066.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 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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Shut In Tool	5.00			3051.00	
Hydraulic tool	5.00			3056.00	
Packer	5.00			3061.00	20.00 Bottom Of Top Packer
Packer	5.00			3066.00	
Stubb	1.00			3067.00	
Recorder	0.00	6752	Inside	3067.00	
Recorder	0.00	8322	Outside	3067.00	
Perforations	30.00			3097.00	
Bullnose	3.00			3100.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54000

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.07.21 @ 20:28:12

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: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%M	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

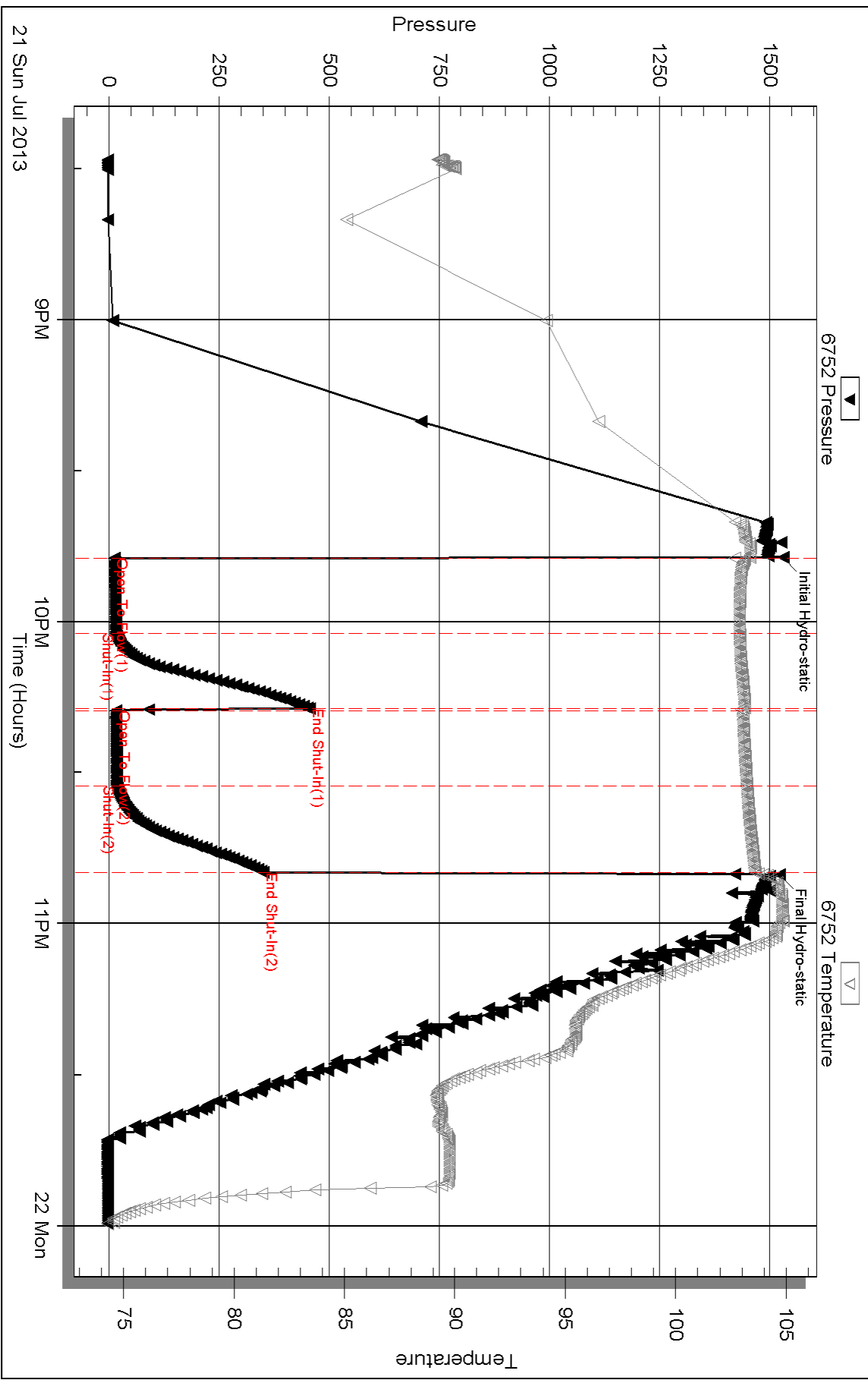
Inside

Prospect Oil & Gas

Abercrombie #1

DST Test Number: 2

Pressure vs. Time



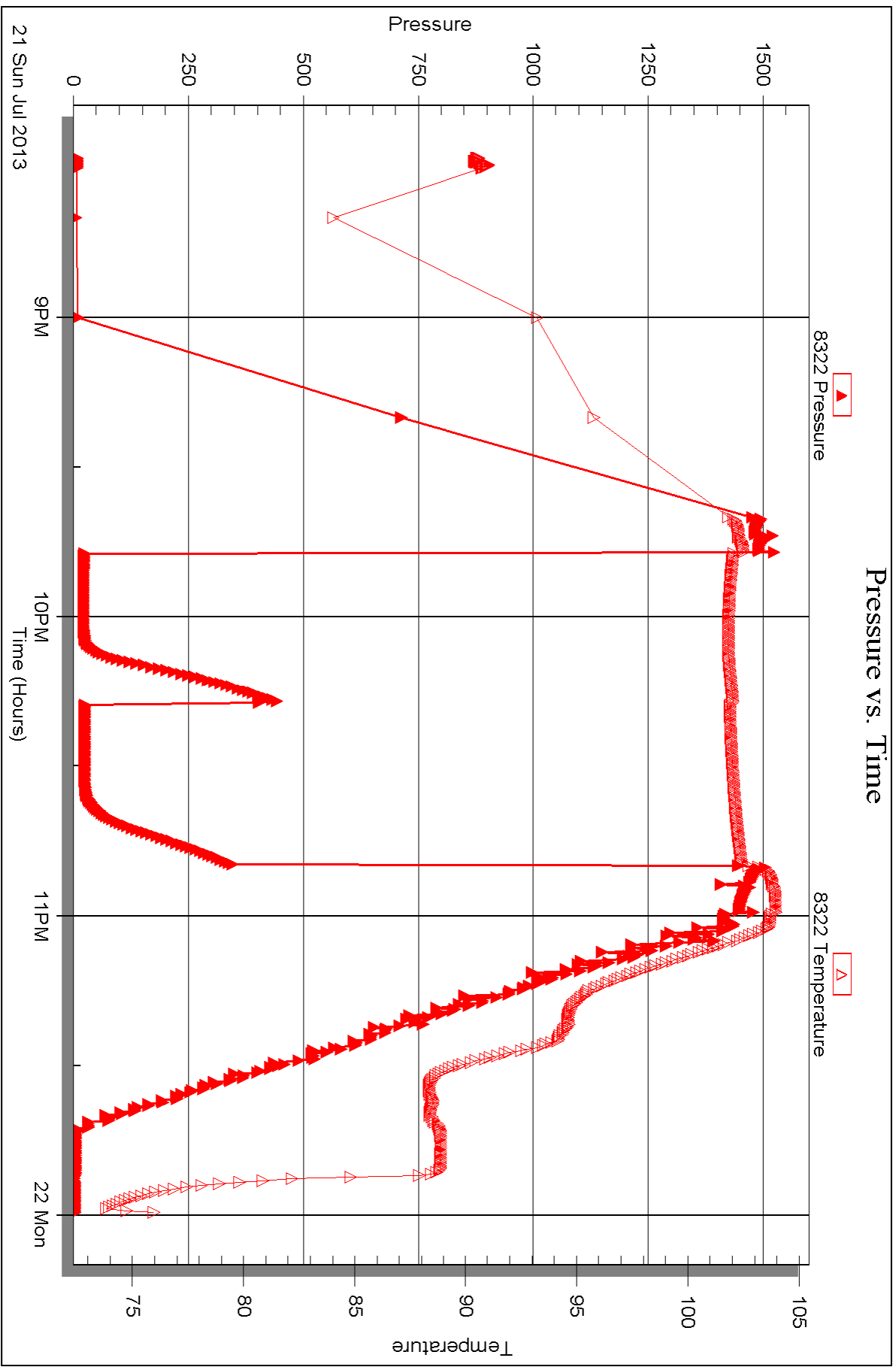
Serial #: 8322

Outside

Prospect Oil & Gas

Abercrombie #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 873
Russell KS 67665

ATTN: Brad Hutchison

Abercrombie #1

30-15s-12w Russell,KS

Start Date: 2013.07.22 @ 16:38:17

End Date: 2013.07.22 @ 22:23:17

Job Ticket #: 54322 DST #: 3

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

Printed: 2013.07.24 @ 14:24:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

ATTN: Brad Hutchison

Job Ticket: 54322

DST#: 3

Test Start: 2013.07.22 @ 16:38:17

GENERAL INFORMATION:

Formation: **I-J**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 17:56:07
 Tester: Tate Lang
 Time Test Ended: 22:23:17
 Unit No: 41
 Interval: **3185.00 ft (KB) To 3250.00 ft (KB) (TVD)**
 Reference Elevations: 1878.00 ft (KB)
 Total Depth: 3250.00 ft (KB) (TVD)
 1871.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 7.00 ft

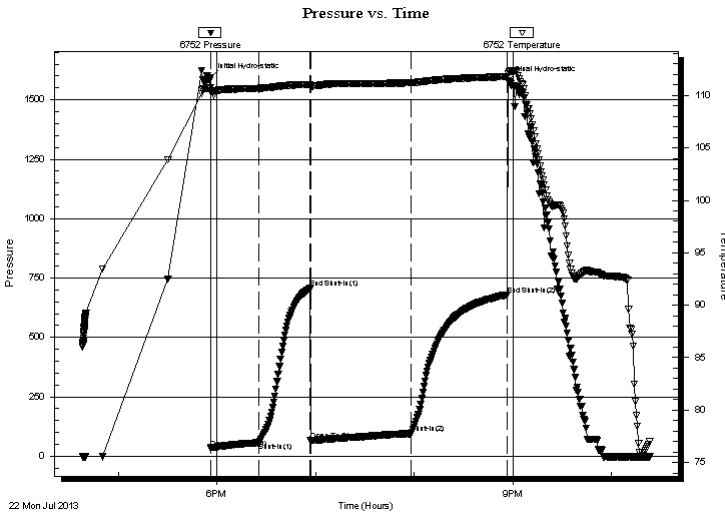
Serial #: 6752

Inside

Press @ Run Depth: 94.99 psig @ 3192.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.07.22 End Date: 2013.07.22 Last Calib.: 2013.07.22
 Start Time: 16:38:18 End Time: 22:23:17 Time On Btm: 2013.07.22 @ 17:55:57
 Time Off Btm: 2013.07.22 @ 20:57:17

TEST COMMENT: B.O.B. In 5 mins.
 Weak surface blow back built to 1/4 in.
 B.O.B. In 1 min.
 Weak surface blow back built to 2 in. died back to a 1/4 in.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1592.95	110.73	Initial Hydro-static
1	33.19	110.34	Open To Flow (1)
30	57.33	110.68	Shut-In(1)
61	706.47	111.05	End Shut-In(1)
61	65.85	110.90	Open To Flow (2)
123	94.99	111.21	Shut-In(2)
181	680.15	111.80	End Shut-In(2)
182	1579.97	112.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	50%G 40%O 10%M	0.84
60.00	60%G 20%O 20%M	0.84
50.00	20%G 20%O 40%M	0.70
0.00	1210 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

30-15s-12w Russell, KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54322

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.07.22 @ 16:38:17

Tool Information

Drill Pipe:	Length: 3194.00 ft	Diameter: 3.80 inches	Volume: 44.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3185.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 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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Shut In Tool	5.00			3170.00	
Hydraulic tool	5.00			3175.00	
Packer	5.00			3180.00	20.00 Bottom Of Top Packer
Packer	5.00			3185.00	
Stubb	1.00			3186.00	
Perforations	5.00			3191.00	
Change Over Sub	1.00			3192.00	
Recorder	0.00	6752	Inside	3192.00	
Recorder	0.00	8322	Outside	3192.00	
Blank Spacing	31.00			3223.00	
Change Over Sub	1.00			3224.00	
Perforations	23.00			3247.00	
Bullnose	3.00			3250.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54322

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.07.22 @ 16:38:17

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	50%G 40%O 10%M	0.842
60.00	60%G 20%O 20%M	0.842
50.00	20%G 20%O 40%M	0.701
0.00	1210 GIP	0.000

Total Length: 170.00 ft

Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

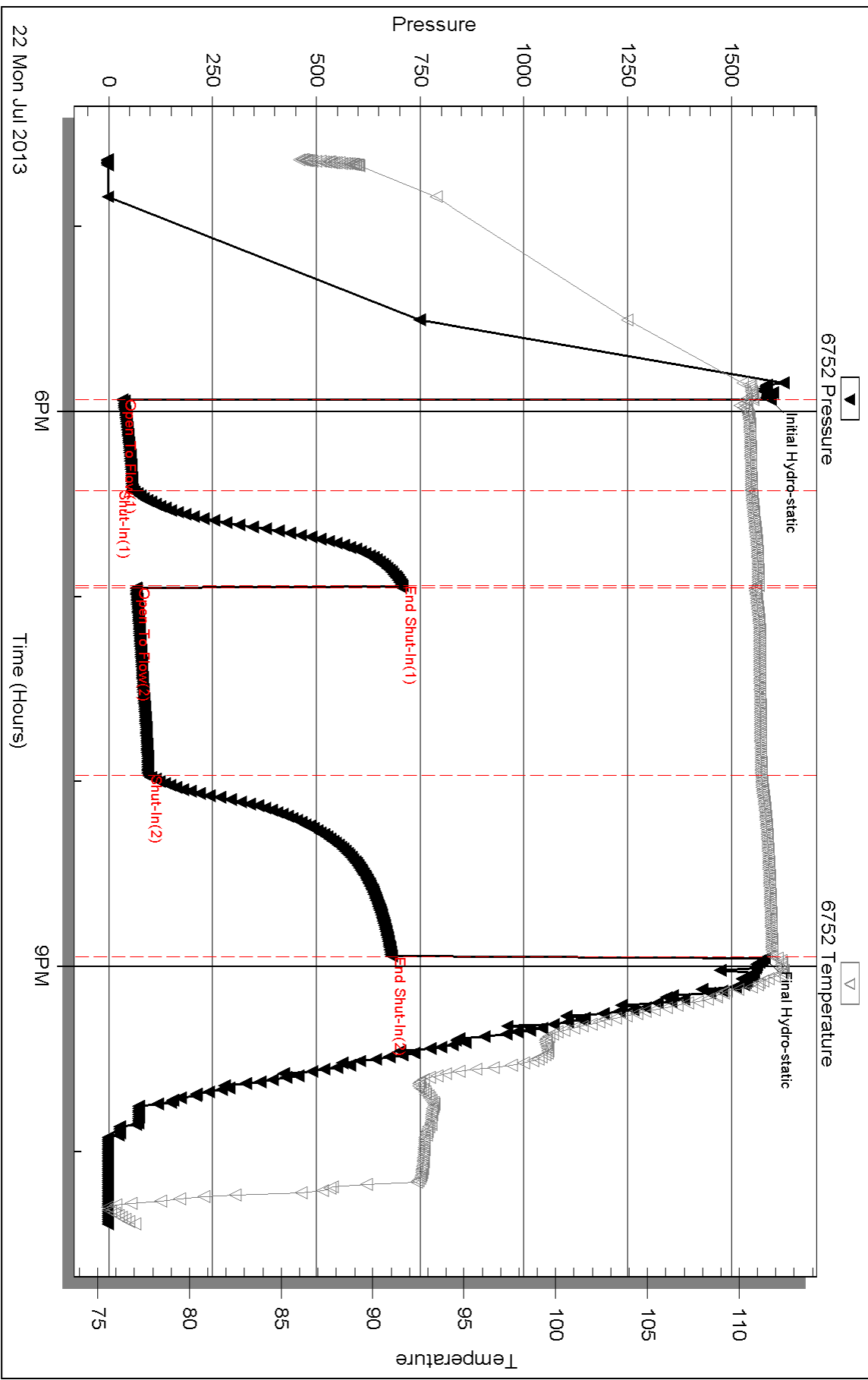
Inside

Prospect Oil & Gas

Abercrombie #1

DST Test Number: 3

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Prospect Oil & Gas**

PO Box 873
Russell KS 67665

ATTN: Brad Hutchison

Abercrombie #1

30-15s-12w Russell,KS

Start Date: 2013.07.23 @ 15:21:19

End Date: 2013.07.23 @ 20:59:39

Job Ticket #: 54323 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.07.24 @ 14:24:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54323

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.07.23 @ 15:21:19

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:39

Time Test Ended: 20:59:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 41

Interval: 3361.00 ft (KB) To 3369.00 ft (KB) (TVD)

Reference Elevations: 1878.00 ft (KB)

Total Depth: 3369.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 78.09 psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.23

End Date:

2013.07.23

Last Calib.:

2013.07.23

Start Time: 15:21:20

End Time:

20:59:39

Time On Btm:

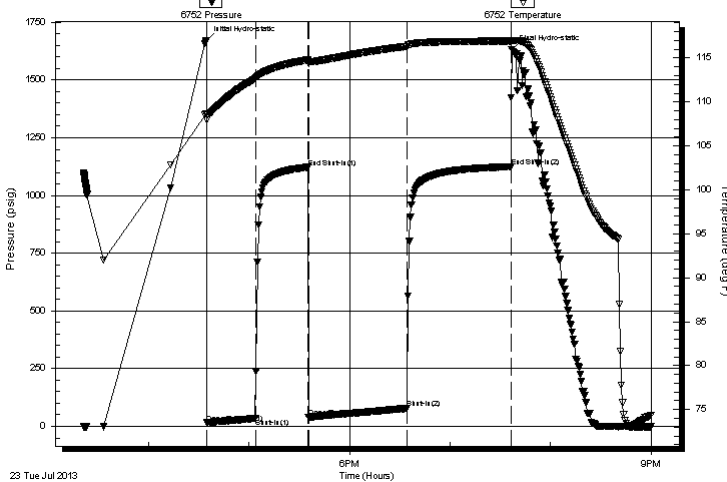
2013.07.23 @ 16:34:29

Time Off Btm:

2013.07.23 @ 19:36:49

TEST COMMENT: Fair surface blow built to 4 in
Dead no blow back
Weak surface blow built to 2 in.
Dead no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1671.59	108.69	Initial Hydro-static
1	15.66	107.92	Open To Flow (1)
30	34.87	112.64	Shut-In(1)
61	1122.09	114.78	End Shut-In(1)
61	39.60	114.36	Open To Flow (2)
120	78.09	116.32	Shut-In(2)
182	1124.44	116.91	End Shut-In(2)
183	1632.99	116.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	2%M 98%W	1.68
10.00	40%M 60%W With skim of oil on top	0.14

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54323

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.07.23 @ 15:21:19

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:34:39

Time Test Ended: 20:59:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 41

Interval: 3361.00 ft (KB) To 3369.00 ft (KB) (TVD)

Reference Elevations: 1878.00 ft (KB)

Total Depth: 3369.00 ft (KB) (TVD)

1871.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press @ Run Depth: psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.07.23

End Date: 2013.07.23

Last Calib.: 2013.07.23

Start Time: 15:21:06

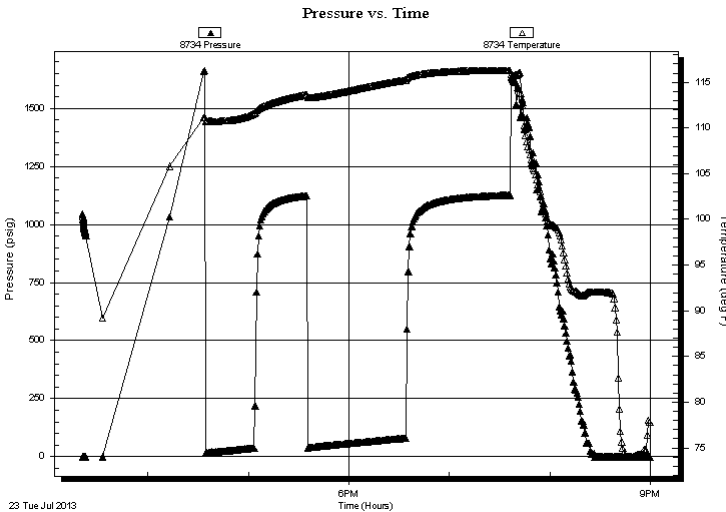
End Time: 20:59:35

Time On Btm:

Time Off Btm:

TEST COMMENT: Fair surface blow built to 4 in
Dead no blow back
Weak surface blow built to 2 in.
Dead no blow back

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	2%M 98%W	1.68
10.00	40%M 60%W With skim of oil on top	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Prospect Oil & Gas

30-15s-12w Russell, KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54323

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.07.23 @ 15:21:19

Tool Information

Drill Pipe:	Length: 3349.00 ft	Diameter: 3.80 inches	Volume: 46.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			<u>Total Volume: 46.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3361.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	28.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3346.00	
Hydraulic tool	5.00			3351.00	
Packer	5.00			3356.00	20.00 Bottom Of Top Packer
Packer	5.00			3361.00	
Stubb	1.00			3362.00	
Perforations	4.00			3366.00	
Recorder	0.00	6752	Inside	3366.00	
Recorder	0.00	8734	Outside	3366.00	
Bullnose	3.00			3369.00	8.00 Bottom Packers & Anchor
Total Tool Length:	28.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Prospect Oil & Gas

30-15s-12w Russell,KS

PO Box 873
Russell KS 67665

Abercrombie #1

Job Ticket: 54323

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.07.23 @ 15:21:19

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: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	2%M 98%W	1.683
10.00	40%M 60%W With skim of oil on top	0.140

Total Length: 130.00 ft

Total Volume: 1.823 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

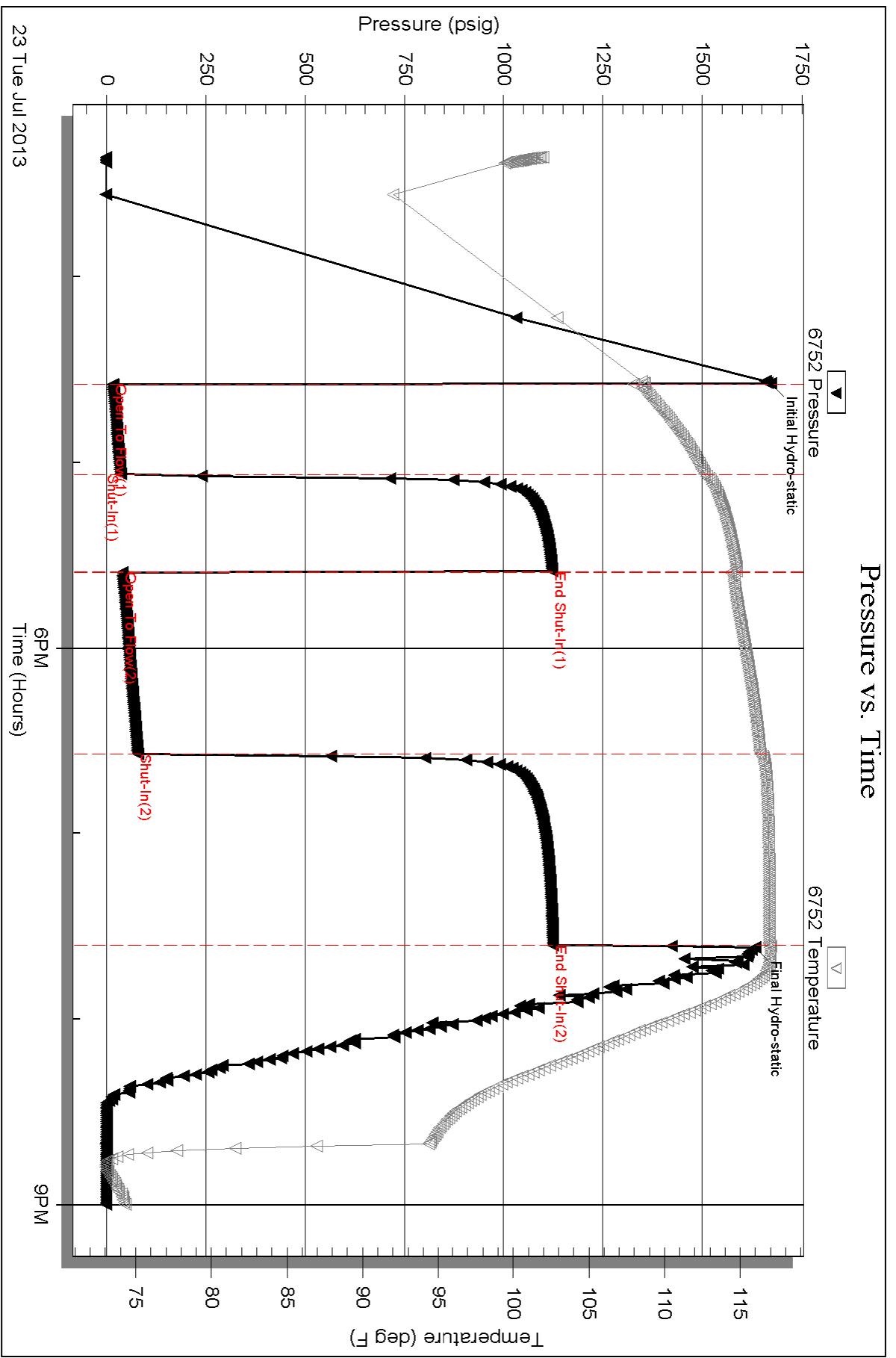
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Inside

Prospect Oil & Gas

Abercrombie #1

DST Test Number: 4



23 Tue Jul 2013

6PM
Time (Hours)

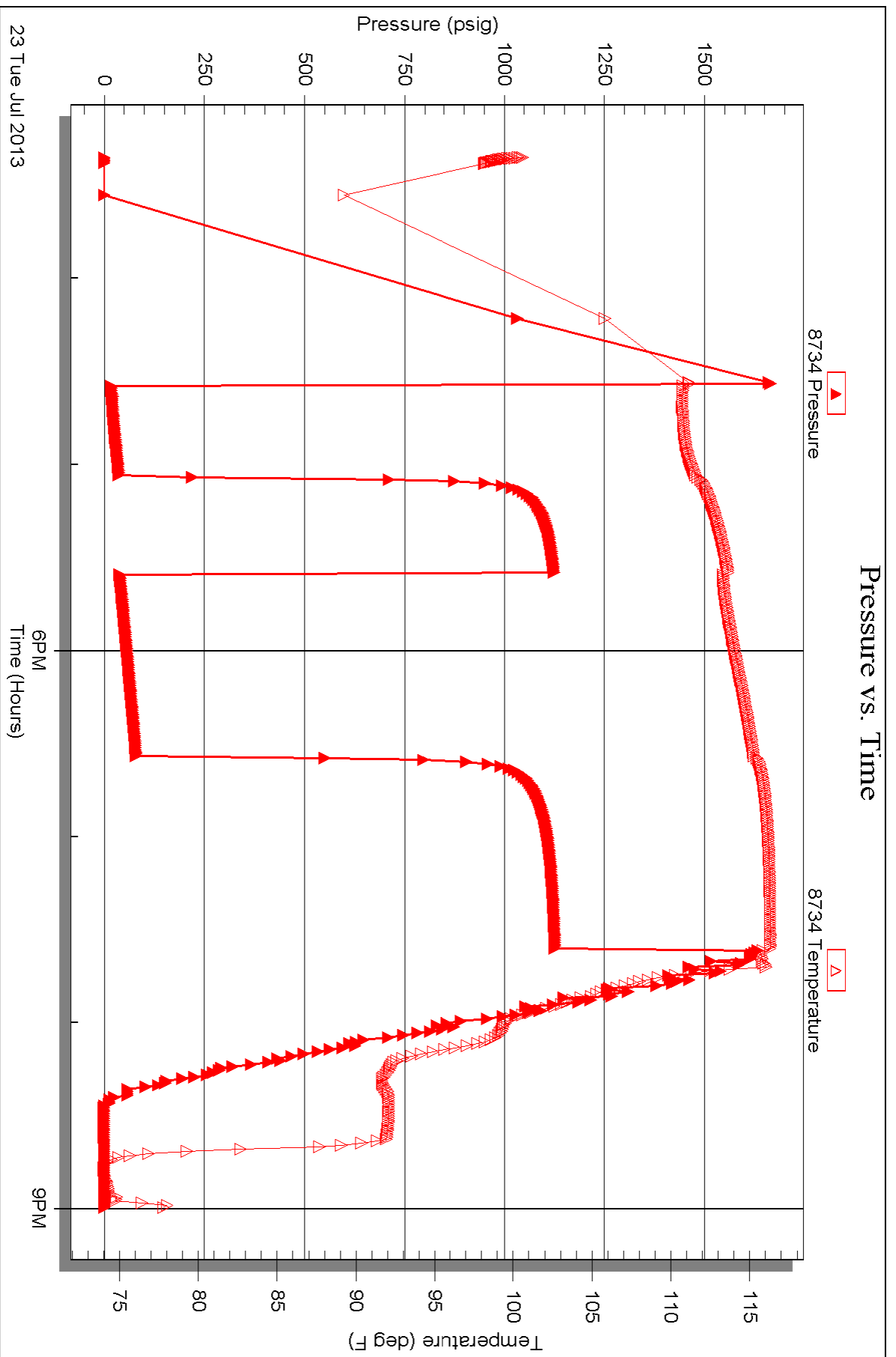
9PM

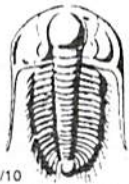
Serial #: 8734

Outside Prospect Oil & Gas

Abercrombie #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 53999

Well Name & No. Abercrombie #1 Test No. 1 Date 7-21-13
 Company Prospect Oil Co Elevation 1878 KB 1871 GL
 Address Po Box 837 Russell KS, 67665
 Co. Rep / Geo. Randy Millian Rig Royal Rig #2
 Location: Sec. 30 Twp. 15 S Rge. 12 W Co. Russell State KS

Interval Tested 2963 3100 Zone Tested Toronto - LHC C
 Anchor Length 137 Drill Pipe Run 2946 Mud Wt. 9.2
 Top Packer Depth 2959 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 2963 Wt. Pipe Run 0 WL 8.0
 Total Depth 3100 Chlorides 3500 ppm System LCM 0

Blow Description Slid 10' to bottom Fair surface blow built to 4 in
Dead no blowback
Dead no blow
Dead no blowback

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50</u>	Feet of <u>mud</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 110 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1567</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>12:20</u>
(B) First Initial Flow <u>96</u>	<input type="checkbox"/> Jars	T-Started <u>12:52</u>
(C) First Final Flow <u>109</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:15</u>
(D) Initial Shut-In <u>927</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>16:05</u>
(E) Second Initial Flow <u>102</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>17:12</u>
(F) Second Final Flow <u>107</u>	<input checked="" type="checkbox"/> Mileage <u>88 RM</u> 136.40	Comments
(G) Final Shut-In <u>599</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1518</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

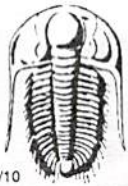
Initial Open 15
 Initial Shut-In 60
 Final Flow 20
 Final Shut-In 15

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1361.40
 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54000

Well Name & No. Abercrombie #1 Test No. 2 Date 7-21-13
 Company Prospect Oil & Gas Elevation 1878 KB 1871 GL _____
 Address _____
 Co. Rep / Geo. Randy Killian / Brad Hutchison Rig Royal Rig #2
 Location: Sec. 30 Twp. 15S Rge. 2W Co. Russell State KS

Interval Tested 3066 3100 Zone Tested L-VC B-C
 Anchor Length _____ 34 Drill Pipe Run 3070 Mud Wt. 9.2
 Top Packer Depth _____ 3102 Drill Collars Run 0 Vis 50
 Bottom Packer Depth _____ 3100 Wt. Pipe Run 0 WL 8.0
 Total Depth _____ 3100 Chlorides 3500 ppm System LCM 0

Blow Description Surged when tool opened the died in 15mins
Dead no blow back
Dead no blow
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>mud</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 103 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1530 Test 1150 T-On Location 19:20
 (B) First Initial Flow 13 Jars _____ T-Started 20:28
 (C) First Final Flow 16 Safety Joint 75 T-Open 21:47
 (D) Initial Shut-In 456 Circ Sub _____ T-Pulled 22:47
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 00:00
 (F) Second Final Flow 18 Mileage 88R/1 136.40 Comments _____
 (G) Final Shut-In 350 Sampler _____
 (H) Final Hydrostatic 1523 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open _____ Extra Packer _____ Extra Copies _____
 Initial Shut-In _____ Extra Recorder _____ Sub Total 0
 Final Flow _____ Day Standby _____ Total 1361.40
 Final Shut-In _____ Accessibility _____ MP/DST Disc't _____
 Sub Total 1361.40

Approved By [Signature] Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54322

4/10

Well Name & No. Abercrombie #1 Test No. 3 Date 7-22-13
 Company Prospect Oil & Gas Elevation 1878 KB 1871 GL
 Address _____
 Co. Rep / Geo. Brad Hutchison Rig Royal Rig #2
 Location: Sec. 30 Twp. 15S Rge. 12W Co. Russell State KS

Interval Tested 3185 3250 Zone Tested I-3
 Anchor Length _____ Drill Pipe Run 3194 Mud Wt. 9.4
 Top Packer Depth 3181 Drill Collars Run 0 Vis 62
 Bottom Packer Depth 3185 Wt. Pipe Run 0 WL 8.8
 Total Depth 3250 Chlorides 5900 ppm System LCM 0

Blow Description B.O.B. In 5 mins
Weak surface blow back built to 1/4 in
B.O.B. In 1 min
Weak surface blow built to 2 in. died back to 1/4 in

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>1210 GIP</u>	<u>100</u>			
<u>50</u>	<u>60CM</u>	<u>20</u>	<u>20</u>	<u>10</u>	<u>10</u>
<u>60</u>	<u>MCCO</u>	<u>60</u>	<u>20</u>	<u>20</u>	<u>20</u>
<u>60</u>	<u>SMCCO</u>	<u>50</u>	<u>40</u>	<u>10</u>	<u>10</u>
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 170 BHT 112 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1593 Test 1150 T-On Location 15:53
 (B) First Initial Flow 33 Jars _____ T-Started 16:38
 (C) First Final Flow 57 Safety Joint 75 T-Open 17:56
 (D) Initial Shut-In 706 Circ Sub _____ T-Pulled 20:56
 (E) Second Initial Flow 66 Hourly Standby _____ T-Out 22:24
 (F) Second Final Flow 95 Mileage 88 R/T 136.40 Comments _____
 (G) Final Shut-In 680 Sampler _____
 (H) Final Hydrostatic 1580 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 60
 Sub Total 0
 Total 1361.40
 MP/DST Disc't _____
 Sub Total 1361.40

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54323

Well Name & No. Abercrombie #1 Test No. 4 Date 7-23-13
 Company Prospect Oil & Gas Elevation 1878 KB 1871 GL
 Address _____
 Co. Rep / Geo. Brad Hutchison Rig Royal Rig #2
 Location: Sec. 30 Twp. 15S Rge. 12W Co. Russell State KS

Interval Tested 3361 3969 Zone Tested Arbuckle
 Anchor Length _____ Drill Pipe Run 3249 Mud Wt. 9.4
 Top Packer Depth _____ Drill Collars Run 0 Vis 54
 Bottom Packer Depth 3361 Wt. Pipe Run 0 WL 9.2
 Total Depth 3369 Chlorides 4800 ppm System LCM 0

Blow Description Fast surface blow built to 4in
Dead no blow back
Weak surface blow built to 2in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MCW</u>	<u>skin oil on top</u>	<u>60</u>	<u>40</u>	
<u>120</u>	<u>VSMCW</u>		<u>98</u>	<u>2</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 130 BHT 117 Gravity _____ API RW 213 @ 75 ° F Chlorides 4800 ppm
 Test 1150 T-On Location 14:45
 Jars T-Started 15:21
 Safety Joint 75 T-Open 16:35
 Circ Sub T-Pulled 19:35
 Hourly Standby T-Out 21:00
 Mileage 88 RT 136.40
 Sampler
 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1361.40

Initial Open 30
 Initial Shut-In 36
 Final Flow 60
 Final Shut-In 60

Comments Loaded
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1361.40
 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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