



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchison

Holland Unit #1

26-12s-15w Russell,KS

Start Date: 2013.05.16 @ 09:13:00

End Date: 2013.05.16 @ 15:31:50

Job Ticket #: 52191 DST #: 1

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

Printed: 2013.05.24 @ 09:01:13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

ATTN: Brad Hutchison

Job Ticket: 52191

DST#: 1

Test Start: 2013.05.16 @ 09:13:00

GENERAL INFORMATION:

Formation: "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:02:10

Time Test Ended: 15:31:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 41

Interval: 2955.00 ft (KB) To 3030.00 ft (KB) (TVD)

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3030.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6752

Inside

Press @ Run Depth: 124.54 psig @ 2958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date:

2013.05.16

Last Calib.:

2013.05.16

Start Time: 09:13:01

End Time:

15:31:50

Time On Btm:

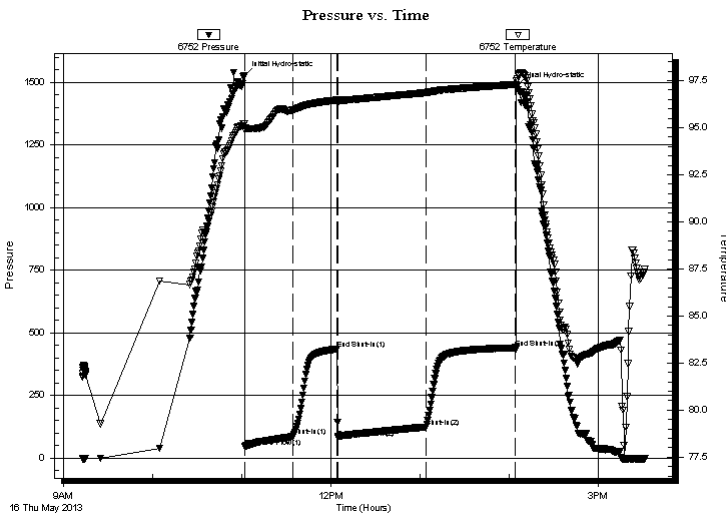
2013.05.16 @ 11:02:00

Time Off Btm:

2013.05.16 @ 14:05:09

TEST COMMENT: 30 - IF- 5" blow
30 - IS- Weak surface blow , died in 10 Minutes
60 - FF- 8" blow
60 - FS- No return

PRESSURE SUMMARY



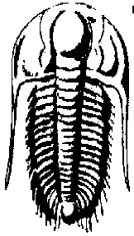
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1526.27	95.21	Initial Hydro-static
1	45.10	94.88	Open To Flow (1)
33	86.10	95.93	Shut-In(1)
62	434.96	96.46	End Shut-In(1)
63	81.20	96.42	Open To Flow (2)
122	124.54	96.86	Shut-In(2)
183	440.59	97.30	End Shut-In(2)
184	1482.94	97.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWM, 10%G, 30%W, 60%M	0.46
107.00	GVSOCM, 5%G, 5%O, 90%M	0.79
0.00	124' of G.I.P.	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52191

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 09:13:00

GENERAL INFORMATION:

Formation: "A-C"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:02:10

Time Test Ended: 15:31:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 41

Interval: 2955.00 ft (KB) To 3030.00 ft (KB) (TVD)

Total Depth: 3030.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1797.00 ft (KB)

1792.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press @ RunDepth: psig @ 2958.00 ft (KB)

Start Date: 2013.05.16

End Date: 2013.05.16

Start Time: 09:13:01

End Time: 15:31:40

Capacity: 8000.00 psig

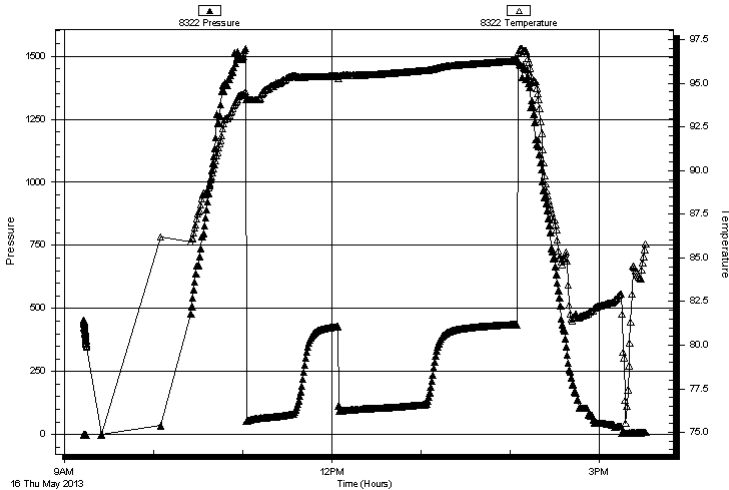
Last Calib.: 2013.05.16

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 5" blow
30 - IS- Weak surface blow, died in 10 Minutes
60 - FF- 8" blow
60 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GWM, 10%G, 30%W, 60%M	0.46
107.00	GVSOCM, 5%G, 5%O, 90%M	0.79
0.00	124' of G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52191

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 09:13:00

Tool Information

Drill Pipe:	Length: 2617.00 ft	Diameter: 3.80 inches	Volume: 36.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 39.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	2955.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	96.00 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			2935.00	
Shut In Tool	5.00			2940.00	
Hydraulic tool	5.00			2945.00	
Packer	5.00			2950.00	21.00 Bottom Of Top Packer
Packer	5.00			2955.00	
Stubb	1.00			2956.00	
Perforations	2.00			2958.00	
Recorder	0.00	6752	Inside	2958.00	
Recorder	0.00	8322	Outside	2958.00	
Change Over Sub	1.00			2959.00	
Drill Pipe	62.00			3021.00	
Change Over Sub	1.00			3022.00	
Perforations	5.00			3027.00	
Bullnose	3.00			3030.00	75.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52191

DST#: 1

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 09:13:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GWM, 10%G, 30%W, 60%M	0.455
107.00	GVSOCM, 5%G, 5%O, 90%M	0.786
0.00	124' of G.I.P.	0.000

Total Length: 169.00 ft

Total Volume: 1.241 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

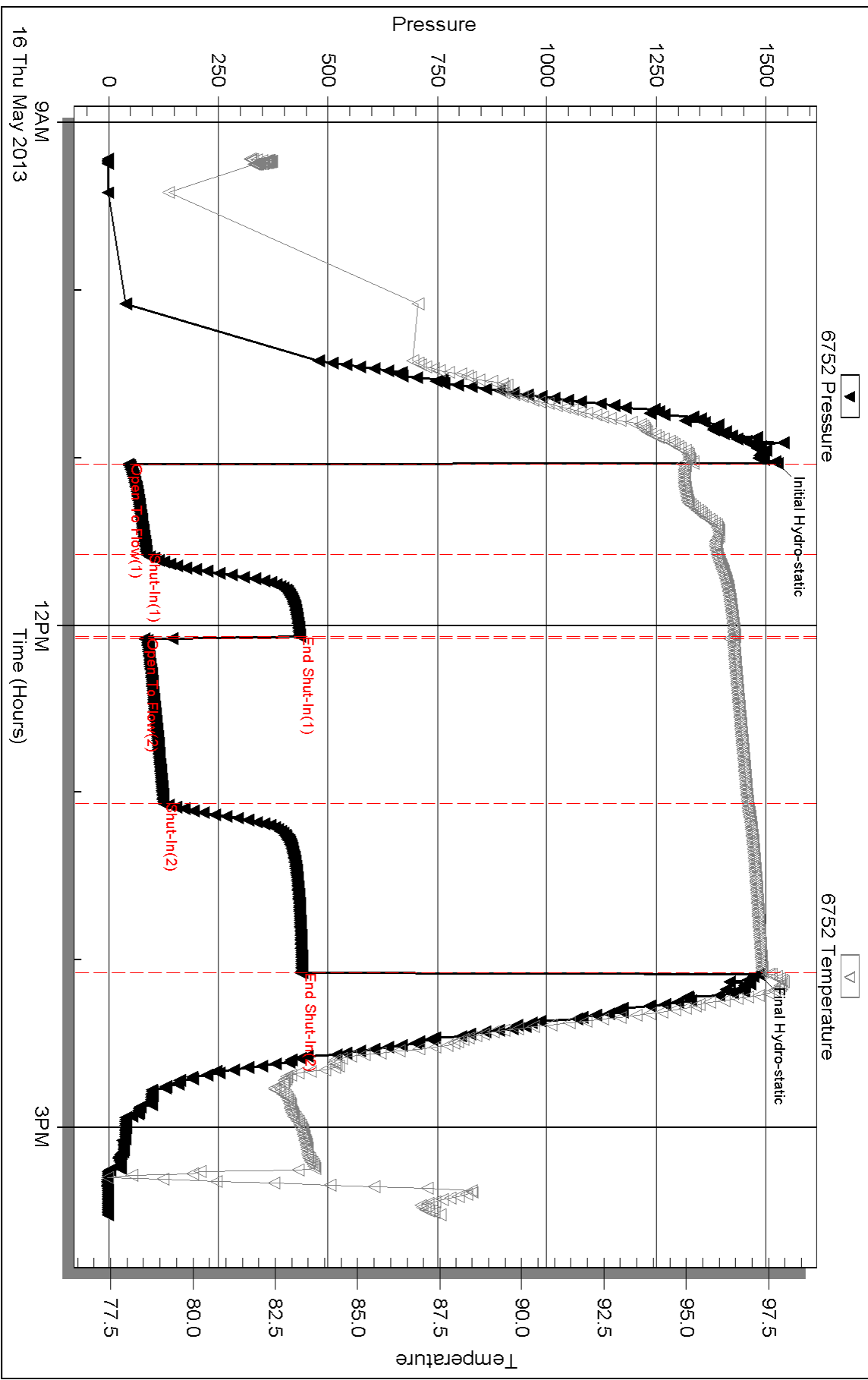
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

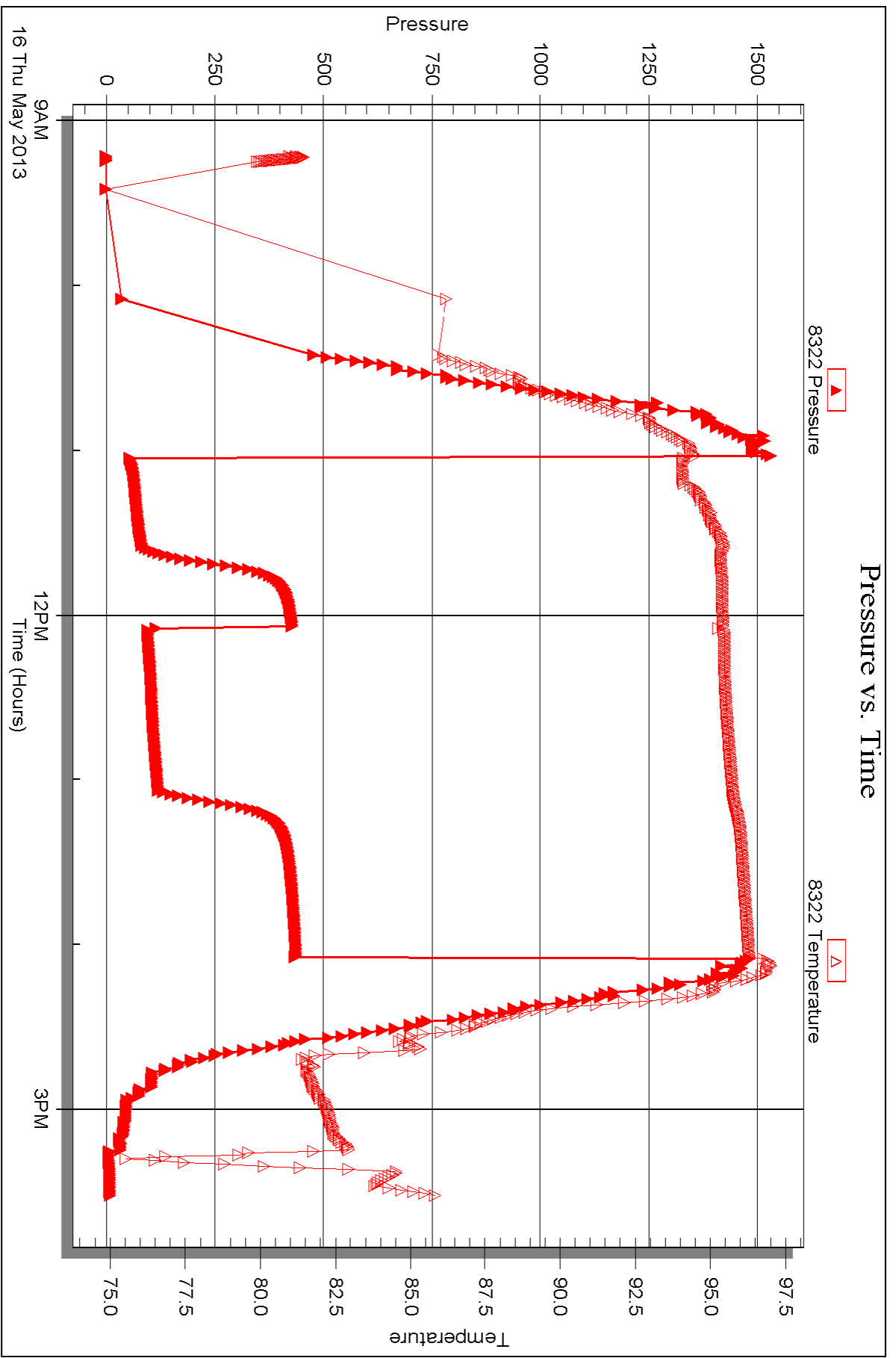


Serial #: 8322

Outside Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52191

Printed: 2013.05.24 @ 09:01:17



DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchison

Holland Unit #1

26-12s-15w Russell,KS

Start Date: 2013.05.16 @ 23:34:00

End Date: 2013.05.17 @ 05:35:20

Job Ticket #: 52192 DST #: 2

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

Printed: 2013.05.24 @ 09:00:30



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

ATTN: Brad Hutchison

Job Ticket: 52192

DST#: 2

Test Start: 2013.05.16 @ 23:34:00

GENERAL INFORMATION:

Formation: **"F-G"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:03:30
 Time Test Ended: 05:35:20
 Interval: **3055.00 ft (KB) To 3080.00 ft (KB) (TVD)**
 Total Depth: 3080.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 41
 Reference Elevations: 1797.00 ft (KB)
 1792.00 ft (CF)
 KB to GR/CF: 5.00 ft

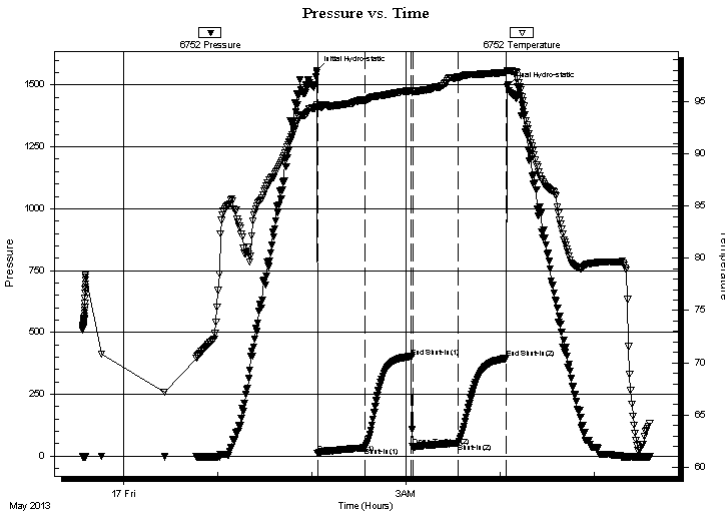
Serial #: 6752

Inside

Press @ RunDepth: 53.40 psig @ 3057.00 ft (KB)
 Start Date: 2013.05.16 End Date: 2013.05.17
 Start Time: 23:34:01 End Time: 05:35:20
 Capacity: 8000.00 psig
 Last Calib.: 2013.05.17
 Time On Btm: 2013.05.17 @ 02:03:20
 Time Off Btm: 2013.05.17 @ 04:04:20

TEST COMMENT: 30 - IF- 5" blow
 30 - IS- No return
 30 - FF- Surged and died
 30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1558.80	94.72	Initial Hydro-static
1	12.18	94.42	Open To Flow (1)
31	34.57	95.14	Shut-In(1)
60	399.81	96.06	End Shut-In(1)
61	38.32	96.00	Open To Flow (2)
90	53.40	97.33	Shut-In(2)
121	395.60	97.78	End Shut-In(2)
122	1491.78	97.98	Final Hydro-static

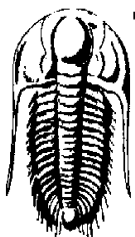
Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 30%W, 70%M	0.46
45.00	GMCWO, 5%G, 20%W, 29%M, 55%O	0.33

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52192

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 23:34:00

GENERAL INFORMATION:

Formation: **"F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:30

Time Test Ended: 05:35:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3055.00 ft (KB) To 3080.00 ft (KB) (TVD)

Total Depth: 3080.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1797.00 ft (KB)

1792.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8322 Outside

Press @ Run Depth: psig @ 3057.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.16

End Date:

2013.05.17

Last Calib.:

2013.05.17

Start Time: 23:34:01

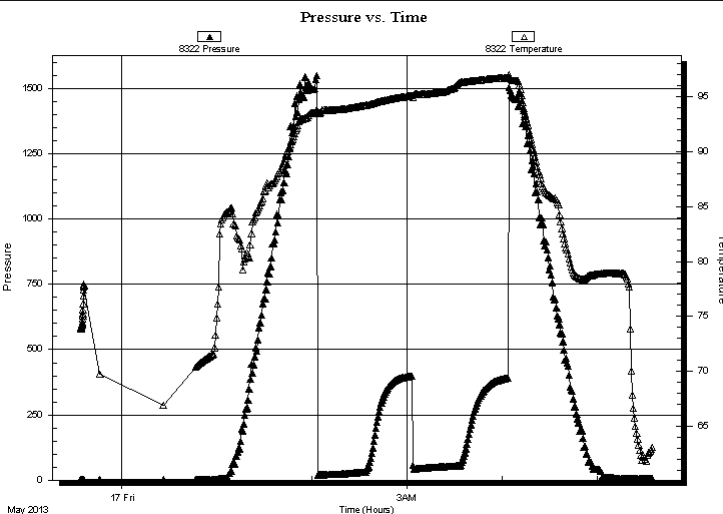
End Time:

05:35:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 5" blow
30 - IS- No return
30 - FF- Surged and died
30 - FS- No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	WM, 30%W, 70%M	0.46
45.00	GMCWO, 5%G, 20%W, 29%M, 55%O	0.33

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52192

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 23:34:00

Tool Information

Drill Pipe:	Length: 2709.00 ft	Diameter: 3.80 inches	Volume: 38.00 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: 40.43 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3055.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 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			3035.00	
Shut In Tool	5.00			3040.00	
Hydraulic tool	5.00			3045.00	
Packer	5.00			3050.00	21.00 Bottom Of Top Packer
Packer	5.00			3055.00	
Stubb	1.00			3056.00	
Perforations	1.00			3057.00	
Recorder	0.00	6752	Inside	3057.00	
Recorder	0.00	8322	Outside	3057.00	
Perforations	20.00			3077.00	
Bullnose	3.00			3080.00	25.00 Bottom Packers & Anchor

Total Tool Length: 46.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52192

DST#: 2

ATTN: Brad Hutchison

Test Start: 2013.05.16 @ 23:34:00

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:

40000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	WM, 30%W, 70%M	0.455
45.00	GMCWO, 5%G, 20%W, 29%M, 55%O	0.331

Total Length: 107.00 ft Total Volume: 0.786 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .23@50 Degrees = 40,000

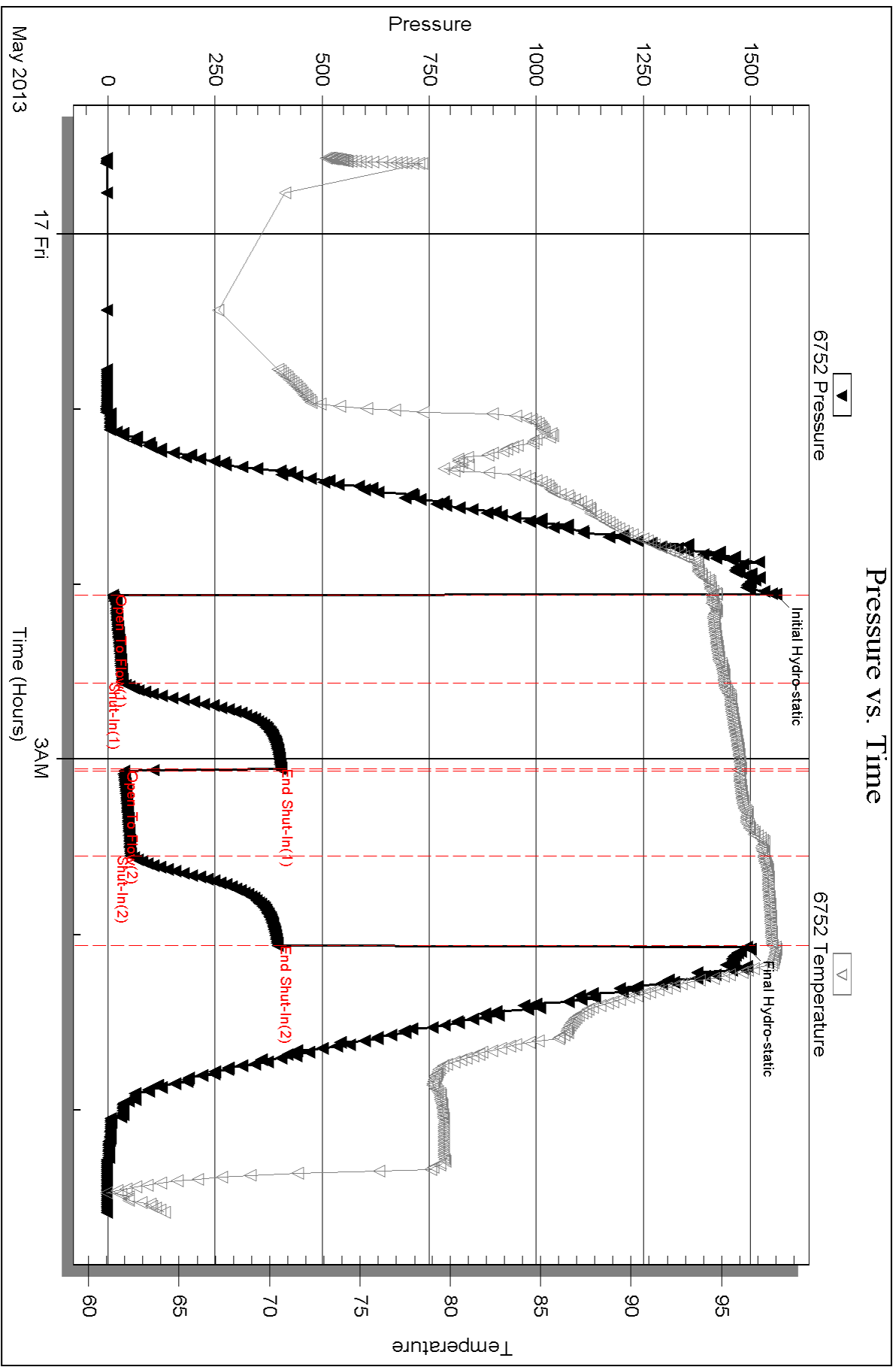
Serial #: 6752

Inside

Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 2

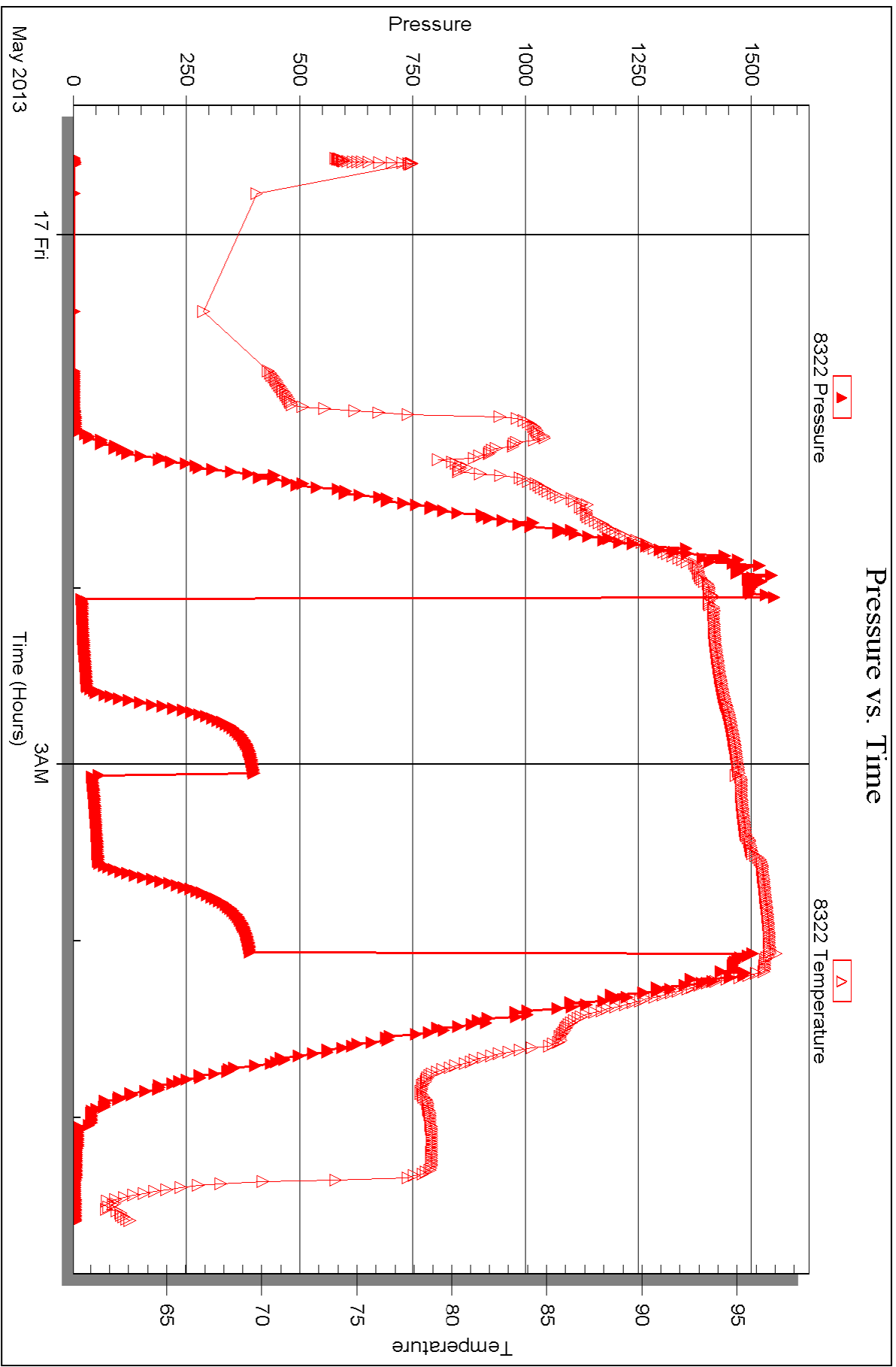


Serial #: 8322

Outside Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchison

Holland Unit #1

26-12s-15w Russell,KS

Start Date: 2013.05.18 @ 07:09:00

End Date: 2013.05.18 @ 11:10:50

Job Ticket #: 52193 DST #: 3

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

Printed: 2013.05.24 @ 08:59:41



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52193

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 07:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:30

Time Test Ended: 11:10:50

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3215.00 ft (KB) To 3250.00 ft (KB) (TVD)

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8322 Inside

Press @ RunDepth: 19.32 psig @ 3216.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.18

End Date:

2013.05.18

Last Calib.: 2013.05.18

Start Time: 07:09:01

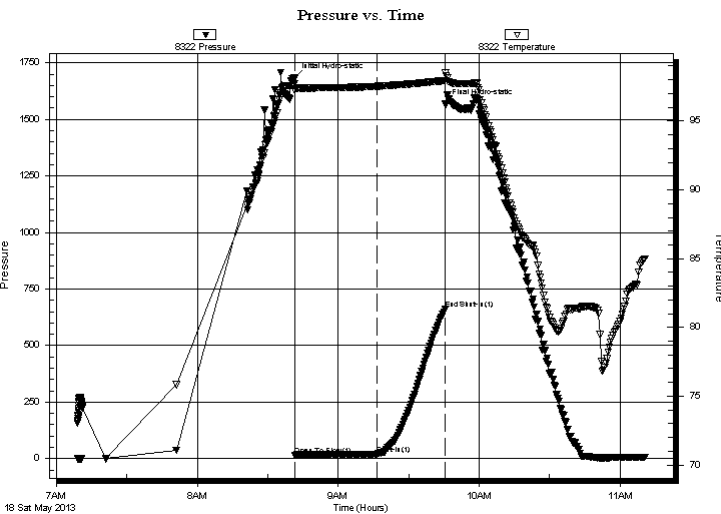
End Time:

11:10:50

Time On Btm: 2013.05.18 @ 08:41:20

Time Off Btm: 2013.05.18 @ 09:45:40

TEST COMMENT: 30 - IF- 1/2" blow
30 - IS- No return, *PULLED TOOL*



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.13	97.74	Initial Hydro-static
1	15.25	97.23	Open To Flow (1)
35	19.32	97.52	Shut-In(1)
65	659.84	97.94	End Shut-In(1)
65	1569.21	98.54	Final Hydro-static

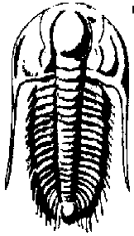
Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud, 100%M	0.22

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52193

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 07:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:30

Time Test Ended: 11:10:50

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: **3215.00 ft (KB) To 3250.00 ft (KB) (TVD)**

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press @ RunDepth: psig @ 3216.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.18

End Date:

2013.05.18

Last Calib.:

2013.05.18

Start Time: 07:09:01

End Time:

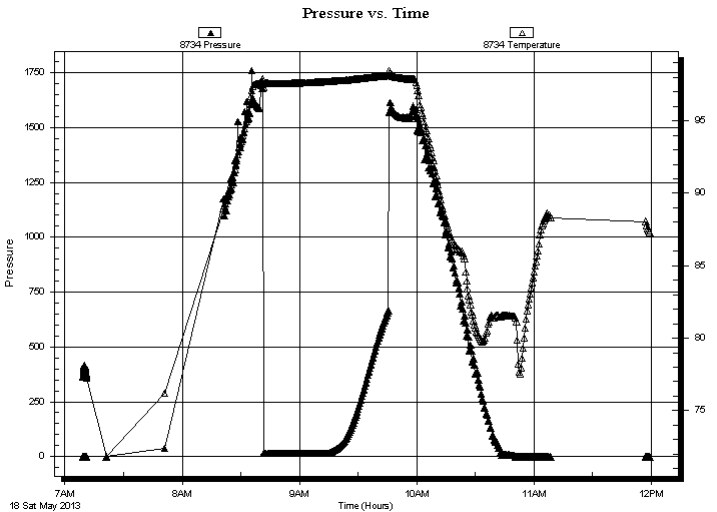
11:59:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" blow
30 - IS- No return, *PULLED TOOL*

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud, 100%M	0.22

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52193

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 07:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:41:30

Time Test Ended: 11:10:50

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3215.00 ft (KB) To 3250.00 ft (KB) (TVD)

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6752 Below (Straddle)

Press @ Run Depth: psig @ 3257.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.18

End Date:

2013.05.18

Last Calib.:

2013.05.18

Start Time: 07:09:01

End Time:

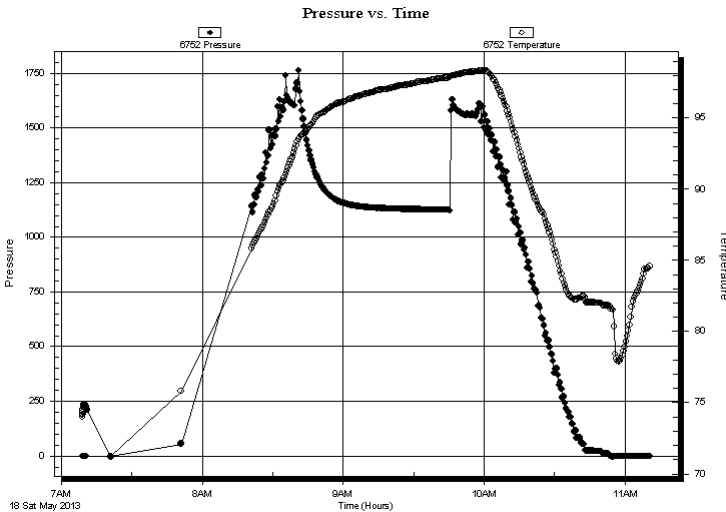
11:10:50

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 - IF- 1/2" blow
30 - IS- No return, *PULLED TOOL*

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud, 100%M	0.22

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52193

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 07:09:00

Tool Information

Drill Pipe:	Length: 2869.00 ft	Diameter: 3.80 inches	Volume: 40.24 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 47000.00 lb
			<u>Total Volume: 42.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3215.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	3250.00 ft			
Interval between Packers:	35.00 ft			
Tool Length:	134.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3195.00	
Shut In Tool	5.00			3200.00	
Hydraulic tool	5.00			3205.00	
Packer	5.00			3210.00	21.00 Bottom Of Top Packer
Packer	5.00			3215.00	
Stubb	1.00			3216.00	
Recorder	0.00	8322	Inside	3216.00	
Recorder	0.00	8734	Outside	3216.00	
Perforations	29.00			3245.00	
Blank Off Sub	1.00			3246.00	
Blank Spacing	4.00			3250.00	35.00 Tool Interval
Packer	5.00			3255.00	
Stubb	1.00			3256.00	
Change Over Sub	1.00			3257.00	
Recorder	0.00	6752	Below	3257.00	
Change Over Sub	1.00			3258.00	
Drill Pipe	62.00			3320.00	
Change Over Sub	1.00			3321.00	
Perforations	4.00			3325.00	
Bullnose	3.00			3328.00	78.00 Bottom Packers & Anchor

Total Tool Length: 134.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing Inc

26-12s-15w Russell, KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52193

DST#: 3

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 07:09:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud, 100%M	0.220

Total Length: 30.00 ft Total Volume: 0.220 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

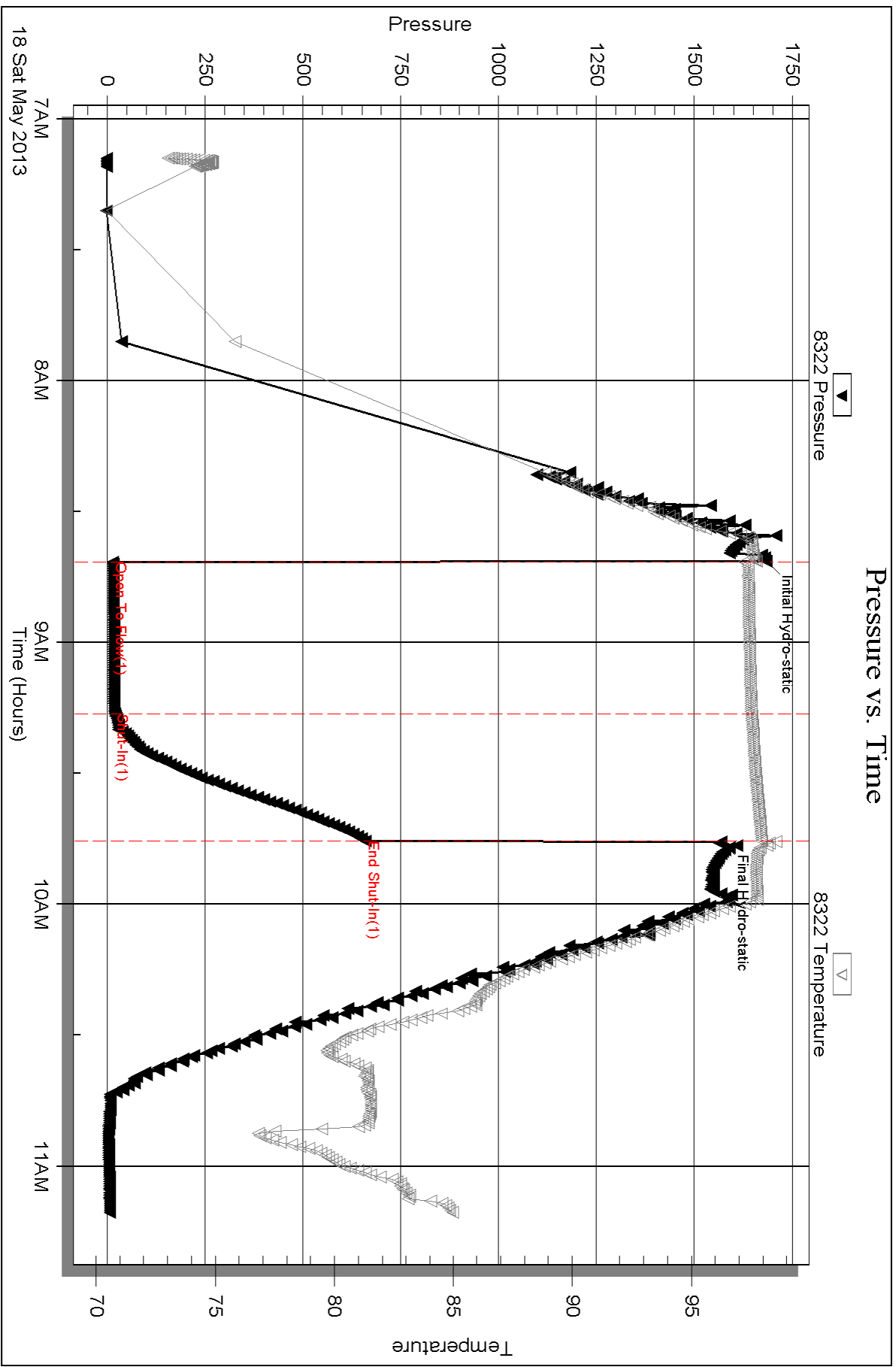
Serial #: 8322

Inside

Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 3

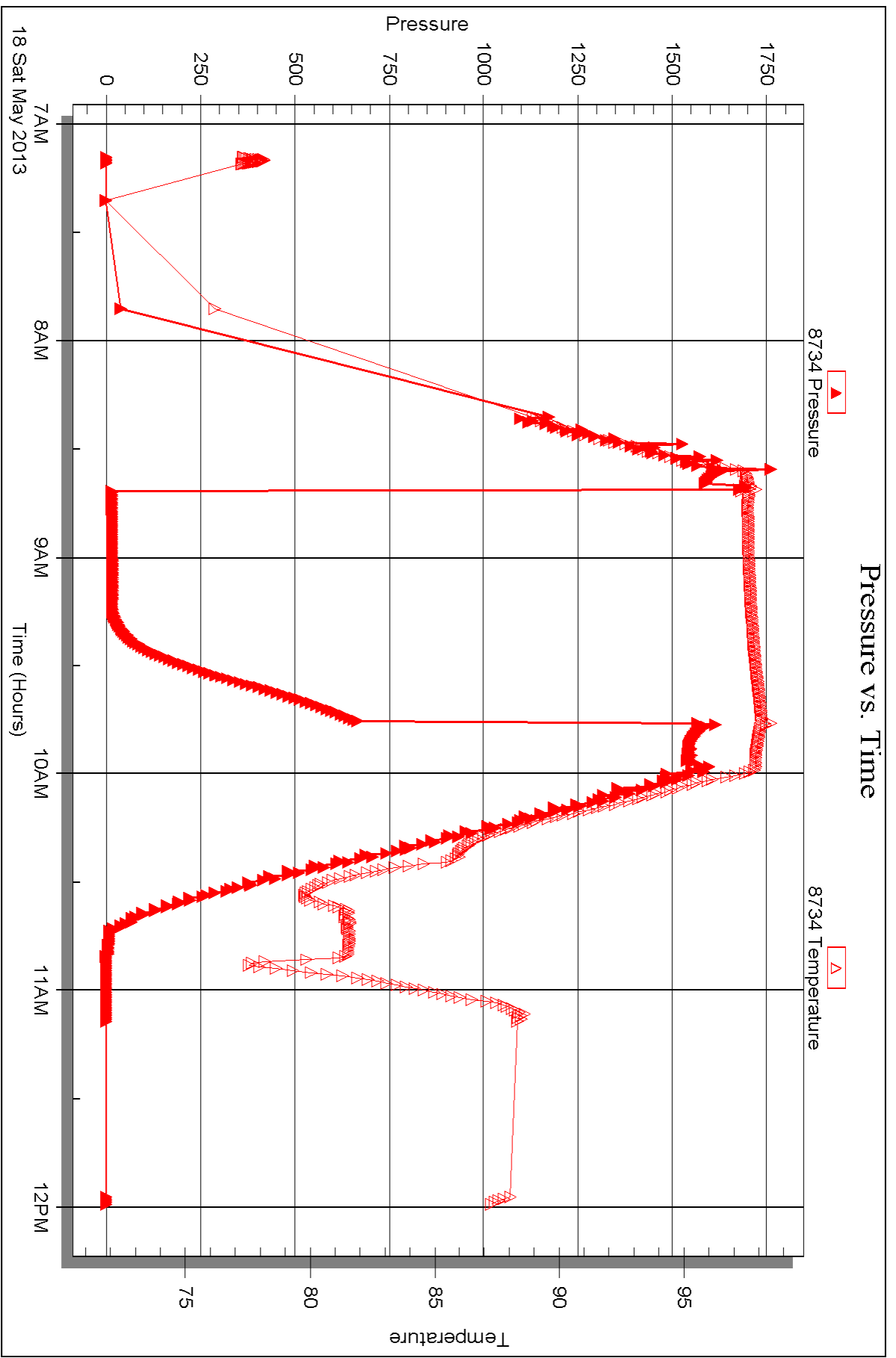


Serial #: 8734

Outside Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 3

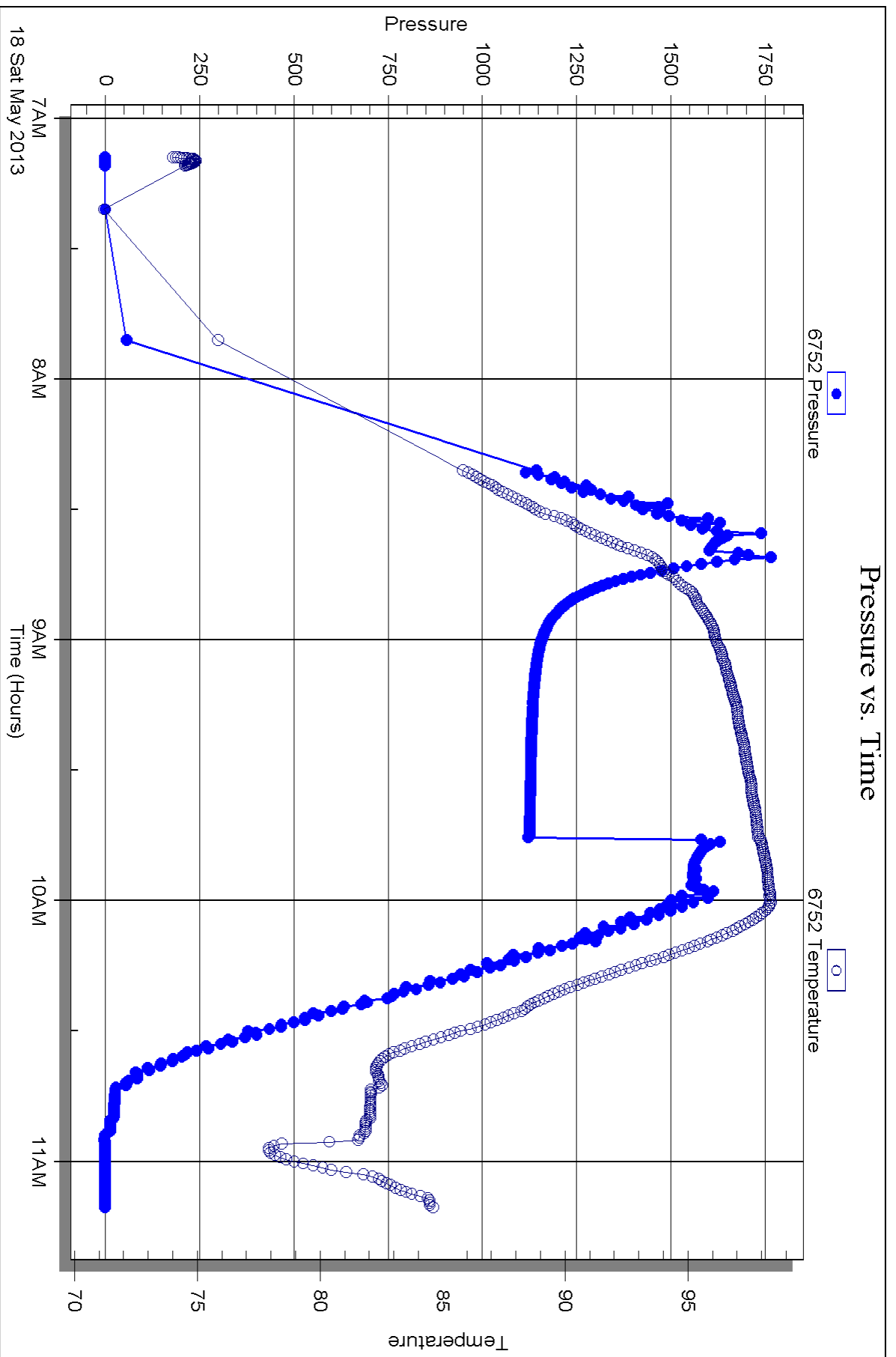


Serial #: 6752

Below (Stratfield) Oil & Leasing Inc

Holland Unit #1

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil & Leasing Inc**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchison

Holland Unit #1

26-12s-15w Russell,KS

Start Date: 2013.05.18 @ 11:33:00

End Date: 2013.05.18 @ 16:55:20

Job Ticket #: 52194 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.24 @ 08:58:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

ATTN: Brad Hutchison

Job Ticket: 52194

DST#: 4

Test Start: 2013.05.18 @ 11:33:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:40

Time Test Ended: 16:55:20

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3244.00 ft (KB) To 3260.00 ft (KB) (TVD)

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8734 Outside

Press @ Run Depth: 459.16 psig @ 3245.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.18

End Date:

2013.05.18

Last Calib.: 2013.05.18

Start Time: 11:33:01

End Time:

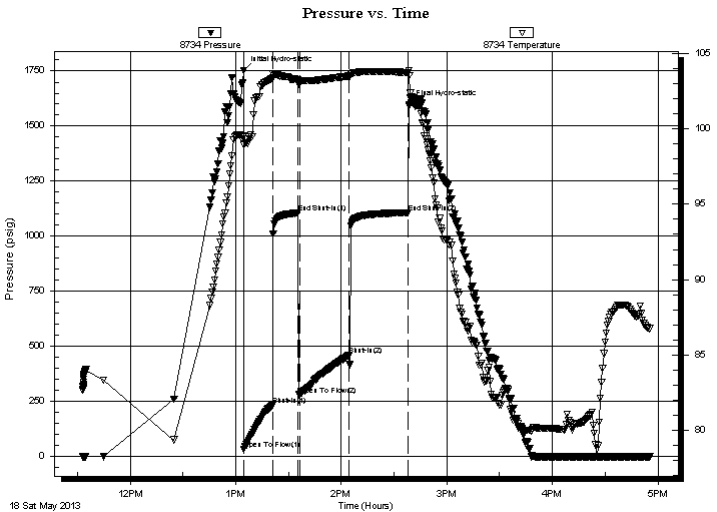
16:55:20

Time On Btm: 2013.05.18 @ 13:04:30

Time Off Btm: 2013.05.18 @ 14:38:30

TEST COMMENT: 15 - IF- B.O.B. in 4 Minues
15 - IS- No return
30 - FF- B.O.B. in 5 Minutes
30 - FS- No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.03	99.53	Initial Hydro-static
1	31.54	98.92	Open To Flow (1)
17	233.22	103.38	Shut-In(1)
31	1105.51	103.28	End Shut-In(1)
32	278.87	103.00	Open To Flow (2)
60	459.16	103.50	Shut-In(2)
94	1107.43	103.73	End Shut-In(2)
94	1598.78	103.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, 40%M, 60%W	0.46
806.00	MW, 5%M, 95%W	9.37
124.00	MW, 40%M, 60%W	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

ATTN: Brad Hutchison

Job Ticket: 52194

DST#: 4

Test Start: 2013.05.18 @ 11:33:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:40

Time Test Ended: 16:55:20

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3244.00 ft (KB) To 3260.00 ft (KB) (TVD)

Reference Elevations: 1797.00 ft (KB)

Total Depth: 3323.00 ft (KB) (TVD)

1792.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8322

Inside

Press @ Run Depth: psig @ 3245.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.18 End Date: 2013.05.18

Last Calib.: 2013.05.18

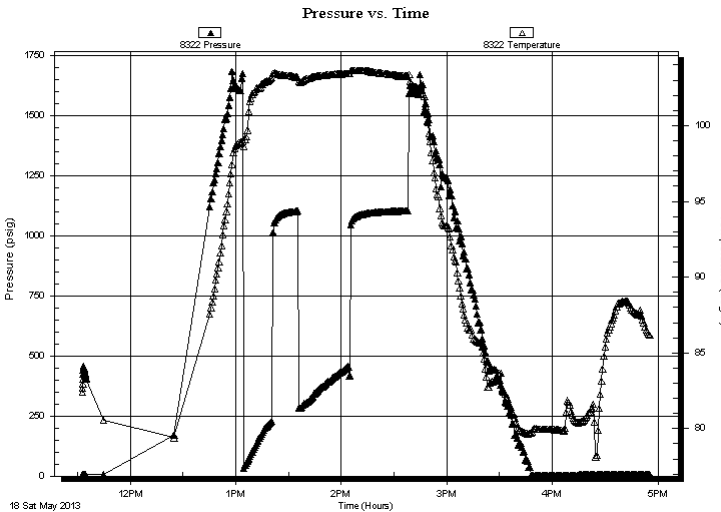
Start Time: 11:33:01 End Time: 16:55:20

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 - IF- B.O.B. in 4 Minues
15 - IS- No return
30 - FF- B.O.B. in 5 Minutes
30 - FS- No return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, 40%M, 60%W	0.46
806.00	MW, 5%M, 95%W	9.37
124.00	MW, 40%M, 60%W	1.74

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil & Leasing Inc

PO Box 871
Russell KS 67665

ATTN: Brad Hutchison

26-12s-15w Russell,KS

Holland Unit #1

Job Ticket: 52194

DST#: 4

Test Start: 2013.05.18 @ 11:33:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:04:40

Time Test Ended: 16:55:20

Test Type: Conventional Straddle (Reset)

Tester: Cody Bloedorn

Unit No: 41

Interval: 3244.00 ft (KB) To 3260.00 ft (KB) (TVD)

Total Depth: 3323.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1797.00 ft (KB)

1792.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752 Below (Straddle)

Press @ Run Depth: psig @ 3300.00 ft (KB)

Start Date: 2013.05.18

End Date:

2013.05.18

Start Time: 11:33:01

End Time:

16:55:20

Capacity: 8000.00 psig

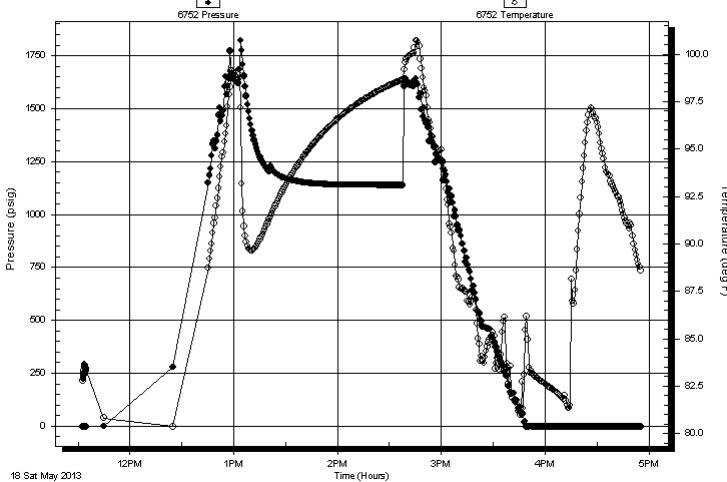
Last Calib.: 2013.05.18

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 - IF- B.O.B. in 4 Minutes
15 - IS- No return
30 - FF- B.O.B. in 5 Minutes
30 - FS- No return

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MW, 40%M, 60%W	0.46
806.00	MW, 5%M, 95%W	9.37
124.00	MW, 40%M, 60%W	1.74

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52194

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 11:33:00

Tool Information

Drill Pipe:	Length: 2899.00 ft	Diameter: 3.80 inches	Volume: 40.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 43.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 43000.00 lb
Depth to Top Packer:	3244.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	3260.00 ft			
Interval between Packers:	16.00 ft			
Tool Length:	105.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3224.00	
Shut In Tool	5.00			3229.00	
Hydraulic tool	5.00			3234.00	
Packer	5.00			3239.00	21.00 Bottom Of Top Packer
Packer	5.00			3244.00	
Stubb	1.00			3245.00	
Recorder	0.00	8322	Inside	3245.00	
Recorder	0.00	8734	Outside	3245.00	
Perforations	10.00			3255.00	
Blank Off Sub	1.00			3256.00	
Blank Spacing	4.00			3260.00	16.00 Tool Interval
Packer	5.00			3265.00	
Stubb	1.00			3266.00	
Change Over Sub	1.00			3267.00	
Drill Pipe	31.00			3298.00	
Change Over Sub	1.00			3299.00	
Change Over Sub	1.00			3300.00	
Recorder	0.00	6752	Below	3300.00	
Perforations	25.00			3325.00	
Bullnose	3.00			3328.00	68.00 Bottom Packers & Anchor
Total Tool Length:	105.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil & Leasing Inc

26-12s-15w Russell,KS

PO Box 871
Russell KS 67665

Holland Unit #1

Job Ticket: 52194

DST#: 4

ATTN: Brad Hutchison

Test Start: 2013.05.18 @ 11:33:00

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:

30000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	MW, 40%M, 60%W	0.455
806.00	MW, 5%M, 95%W	9.369
124.00	MW, 40%M, 60%W	1.739

Total Length: 992.00 ft Total Volume: 11.563 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

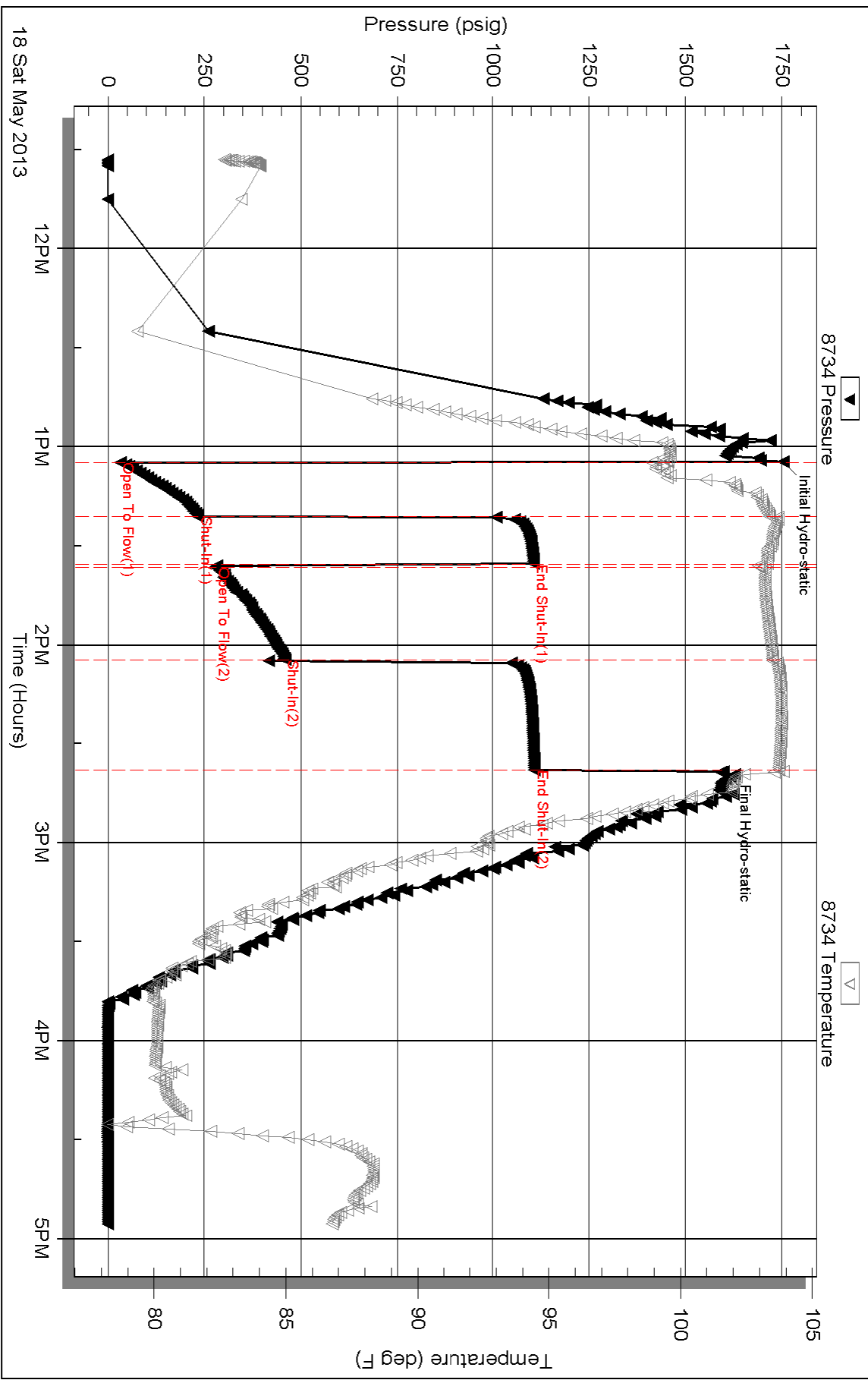
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 30000

Pressure vs. Time



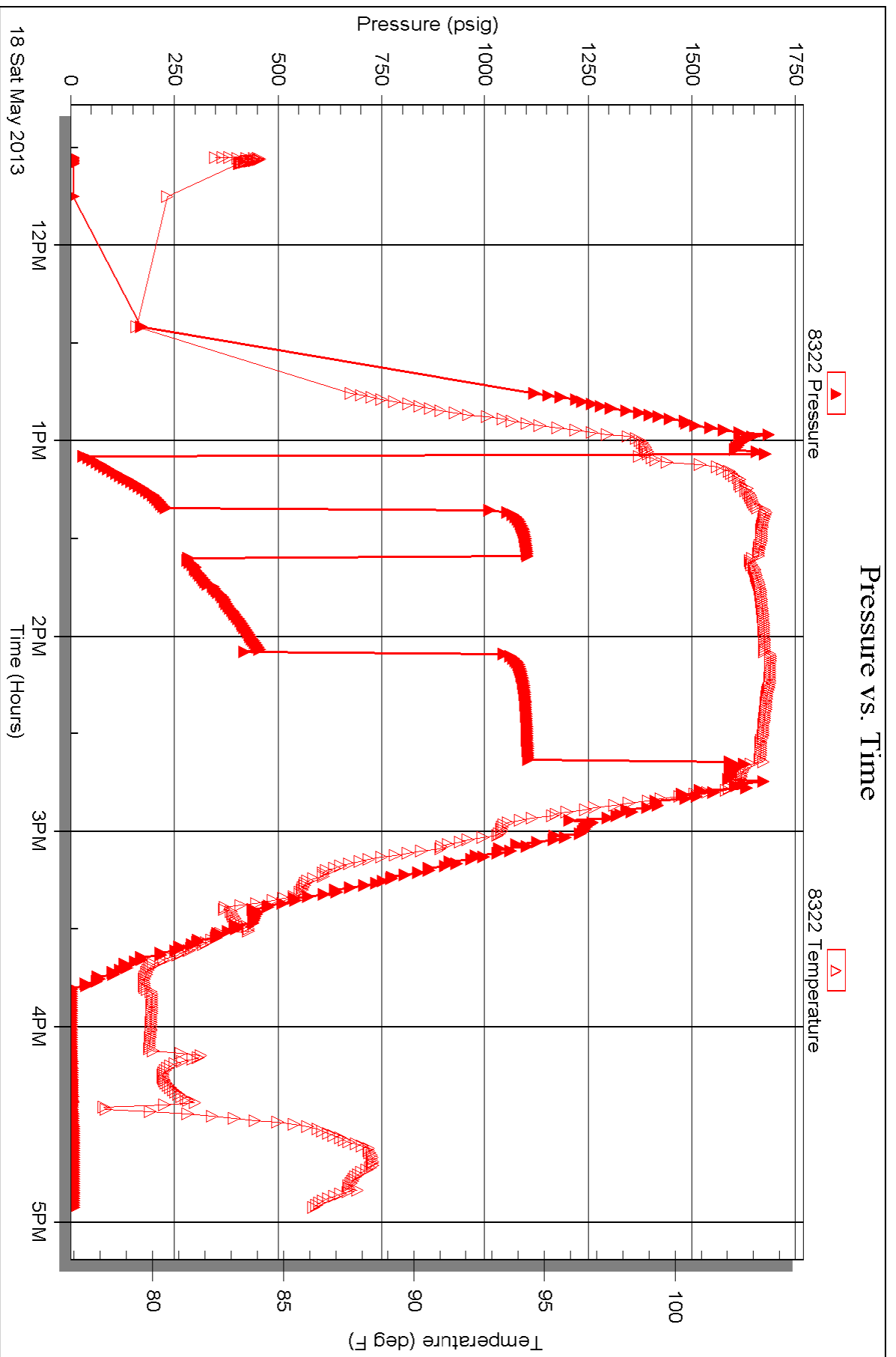
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Inside

Brungardt Oil & Leasing Inc

Holland Unit #1

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 52194

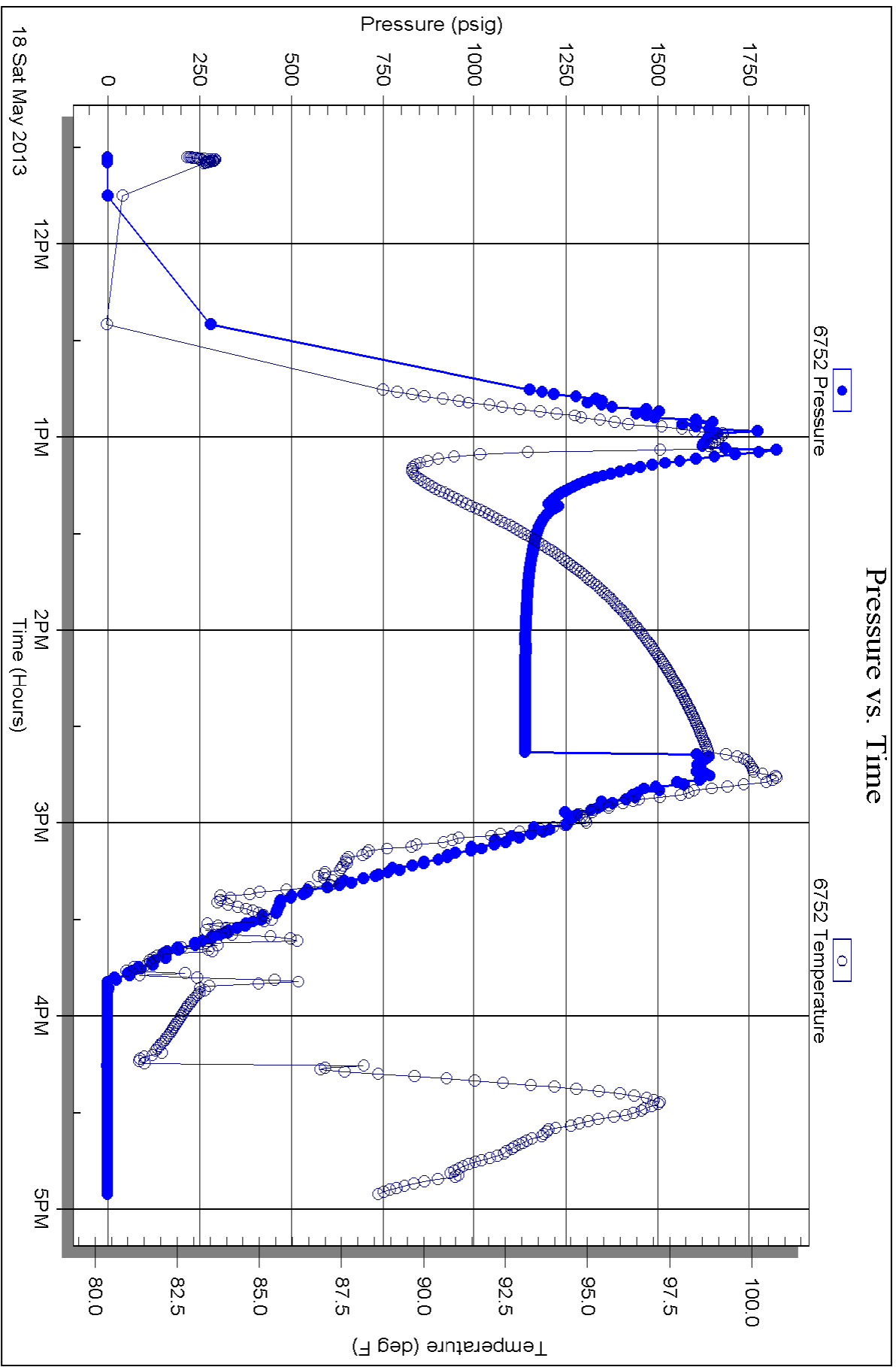
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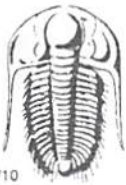
Serial #: 6752

Below (Stratfield)prod Oil & Leasing Inc

Holland Unit #1

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52191

Well Name & No. Holland Unit #1 Test No. 1 Date 5-16-13
 Company Brundgardt oil & leasing Inc Elevation 1797 KB 1792 GL
 Address Po Box 871, Russell KS, 67665
 Co. Rep / Geo. Brad Hutchison Rig shields
 Location: Sec. 26 Twp. 12s Rge. 5w Co. Russell State KS

Interval Tested 2955 - 3030 Zone Tested A-C
 Anchor Length 75' Drill Pipe Run 2617' Mud Wt. 8.9
 Top Packer Depth 2950 Drill Collars Run 30' Vis 55
 Bottom Packer Depth 2955 Wt. Pipe Run 311' WL 7.2
 Total Depth 3030 Chlorides 5,400 ppm System LCM -

Blow Description IF- 5" blow
ISI- weak surface blow, died in 10 minutes
FF- 8" blow
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>GW M</u>	<u>10</u>	<u>30</u>	<u>60</u>	
<u>107</u>	<u>GUSOCM</u>	<u>5</u>	<u>5</u>	<u>90</u>	
	<u>124' of G.I.P.</u>				

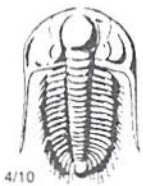
Rec Total 169' BHT 97° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1526 Test 1150 T-On Location 7:44am
 (B) First Initial Flow 45 Jars - T-Started 9:13am
 (C) First Final Flow 86 Safety Joint - T-Open 11:03am
 (D) Initial Shut-In 434 Circ Sub - T-Pulled 2:03pm
 (E) Second Initial Flow 81 Hourly Standby - T-Out 3:31pm
 (F) Second Final Flow 124 Mileage 58 RT 89.90 Comments -
 (G) Final Shut-In 440 Sampler -
 (H) Final Hydrostatic 1482 Straddle -
 Shale Packer -
 Ruined Shale Packer -
 Ruined Packer -

Initial Open 30 Extra Packer -
 Initial Shut-In 30 Extra Recorder -
 Final Flow 60 Day Standby -
 Final Shut-In 60 Accessibility -
 Sub Total 1239.90 Sub Total 0
 Total 1239.90 MP/DST Disc't -

Approved By _____ Our Representative Cody [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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52192

Well Name & No. Holland unit #1 Test No. 2 Date 5-17-13
 Company Brundgardt oil & Leasing Elevation 1797 KB 1792 GL
 Address Po Box 871, Russell KS, 67665
 Co. Rep / Geo. Brad Hutchison Rig Shields
 Location: Sec. 26 Twp. 12s Rge. 15w Co. Russell State KS

Interval Tested 3055-3080 Zone Tested "F-6"
 Anchor Length 25' Drill Pipe Run 2709 Mud Wt. 9.2
 Top Packer Depth 3050 Drill Collars Run 30 Vis 47
 Bottom Packer Depth 3055 Wt. Pipe Run 311 WL 7.8
 Total Depth 3080 Chlorides 7,600 ppm System LCM —

Blow Description IF-5" blow
IF- No return
FF- Surged & died
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>WM</u>		<u>30</u>	<u>70</u>	
<u>45</u>	<u>GMCWO</u>	<u>5</u>	<u>55</u>	<u>20</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

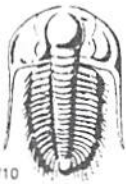
Rec Total 107' BHT 970 Gravity — API RW .23 @ 50° F Chlorides 40,000 ppm

(A) Initial Hydrostatic 1558 Test 1150 T-On Location 11:15 pm
 (B) First Initial Flow 12 Jars _____ T-Started 11:34 pm
 (C) First Final Flow 34 Safety Joint _____ T-Open 2:02 am
 (D) Initial Shut-In 399 Circ Sub _____ T-Pulled 4:02 am
 (E) Second Initial Flow 38 Hourly Standby _____ T-Out 5:34 am
 (F) Second Final Flow 53 Mileage 58 RT 89.90 Comments _____
 (G) Final Shut-In 395 Sampler _____
 (H) Final Hydrostatic 1491 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Shale Packer _____ Ruined Packer _____
 Final Flow 30 Extra Packer _____ Extra Copies _____
 Final Shut-In 30 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1239.90
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1239.90

Approved By _____ Our Representative Cody R...

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. 52193

Well Name & No. Holland unit # 1 Test No. 3 Date 5-18-13
 Company Brundgardt Oil & Leasing, Inc Elevation 1797 KB 1792 GL
 Address Po Box 871, Russell KS, 67665
 Co. Rep / Geo. Brad Hutchison Rig Shields
 Location: Sec. 26 Twp. 12s Rge. 15w Co. Russell State KS

Interval Tested 3215 - 3250 Zone Tested Arbuckle
 Anchor Length 35' 73'tail Drill Pipe Run 2869' Mud Wt. 9.0
 Top Packer Depth 3210 Drill Collars Run 30' Vis 52
 Bottom Packer Depth 3215 Wt. Pipe Run 311' WL 8.0
 Total Depth 3250 Chlorides 8,200 ppm System LCM 8,200

Blow Description IF- 1/2" blow
ISI- No return * Pulled TOOL *
~~FF~~
~~FF~~

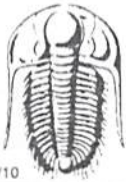
Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 970 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1683 Test 1150 T-On Location 6:55 am
 (B) First Initial Flow 15 Jars - T-Started 7:09 am
 (C) First Final Flow 19 Safety Joint - T-Open 8:44 am
 (D) Initial Shut-In 659 Circ Sub - T-Pulled 9:44 am
 (E) Second Initial Flow - Hourly Standby - T-Out 11:12 am
 (F) Second Final Flow - Mileage 580 RM 29 89.90 Comments -
 (G) Final Shut-In - Sampler -
 (H) Final Hydrostatic 1569 Straddle 600 Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Extra Recorder - Sub Total 50
 Day Standby over 24 hrs 1d 1.5h Total 1889.90
 Accessibility - MP/DST Disc't -
 Sub Total 1839.90

Approved By _____ Our Representative Cody R. [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.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52194

Well Name & No. Holland unit #1 Test No. 4 Date 5-18-13
 Company Brundgardt Oil & Leasing Inc Elevation 1797 KB 1792 GL
 Address Po Box 871, Russell KS, 67665
 Co. Rep / Geo. Brad Hutchison Rig Shields
 Location: Sec. 26 Twp. 12s Rge. 15w Co. Russell State KS

Interval Tested 3244-3260 Zone Tested Arbuckle
 Anchor Length 16' 63'tail Drill Pipe Run 2899 Mud Wt. 9.0
 Top Packer Depth 3239 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3244 Wt. Pipe Run 311 WL 8.0
 Total Depth 3260 Chlorides 8,200 ppm System LCM -
 Blow Description IF- B.O.B. in 4 Minutes
ISI- No return
FF- B.O.B. in 5 Minutes
FSI- No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>62</u>	<u>MW</u>		<u>60</u>	<u>40</u>	
<u>806</u>	<u>MW</u>		<u>95</u>	<u>5</u>	
<u>124</u>	<u>MW</u>		<u>60</u>	<u>40</u>	

Rec Total 996 BHT 103° Gravity - API RW .26 @ 60° F Chlorides 30,000 ppm
 (A) Initial Hydrostatic 1753 Test 1150 T-On Location 11:22 am
 (B) First Initial Flow 31 Jars _____ T-Started 11:33 am
 (C) First Final Flow 233 Safety Joint _____ T-Open 1:07 pm
 (D) Initial Shut-In 1105 Circ Sub _____ T-Pulled 2:37 pm
 (E) Second Initial Flow 278 Hourly Standby _____ T-Out 4:56 pm
 (F) Second Final Flow 459 Mileage 29 Comments 29 here for Dst 3
 (G) Final Shut-In 1107 Sampler _____ 29 to go home after
 (H) Final Hydrostatic 1598 Straddle 600 Dst 4.
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 15 Extra Packer _____ Sub Total 0
 Initial Shut-In 15 Extra Recorder _____ Total 1750
 Final Flow 30 Day Standby _____
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1750

Approved By _____ Our Representative Cody Bl...
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