

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Dechant Trust #1

6-15s-18w Ellis,KS

Start Date: 2017.11.04 @ 06:20:13

End Date: 2017.11.04 @ 11:40:22

Job Ticket #: 63094 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.11.07 @ 08:27:53

Downing-Nelson Oil Co Inc
6-15s-18w Ellis,KS
Dechant Trust #1
DST # 1
LKC "A"
2017.11.04



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63094

DST#: 1

ATTN: Marc Dow ning

Test Start: 2017.11.04 @ 06:20:13

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:19:53

Time Test Ended: 11:40:22

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schw ager

Unit No: 77

Interval: 3292.00 ft (KB) To 3324.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3324.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press@RunDepth: 31.89 psig @ 3296.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.04

End Date:

2017.11.04

Last Calib.: 2017.11.04

Start Time: 06:20:13

End Time:

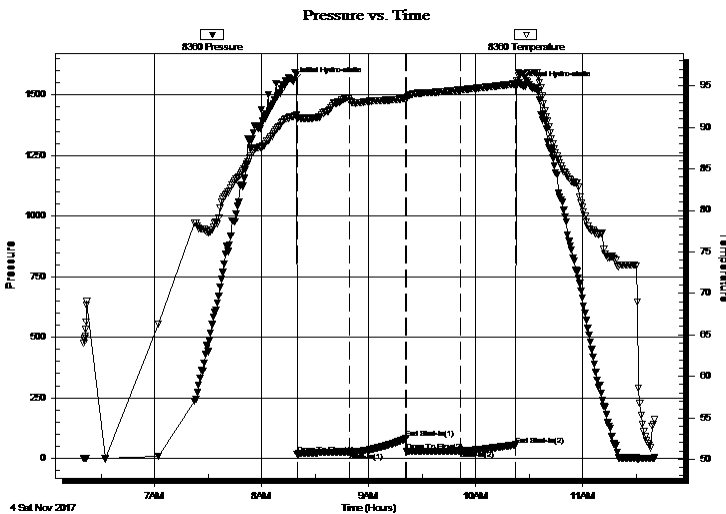
11:40:22

Time On Btm: 2017.11.04 @ 08:17:53

Time Off Btm: 2017.11.04 @ 10:26:38

TEST COMMENT: 30-IFP- surface bl thru-out
30-ISIP-no bl bk
30-FFP-w k bl thru-out 1/2" bl
30-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1555.28	91.29	Initial Hydro-static
2	17.82	91.09	Open To Flow (1)
32	26.12	93.18	Shut-In(1)
63	82.56	93.47	End Shut-In(1)
64	29.56	93.47	Open To Flow (2)
94	31.89	94.51	Shut-In(2)
125	55.97	95.24	End Shut-In(2)
129	1536.50	96.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / show of oil	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63094

DST#: 1

ATTN: Marc Dow ning

Test Start: 2017.11.04 @ 06:20:13

Tool Information

Drill Pipe:	Length: 3263.00 ft	Diameter: 3.80 inches	Volume: 45.77 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 45.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3292.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	32.00 ft			
Tool Length:	53.00 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			3272.00	
Shut In Tool	5.00			3277.00	
Hydraulic tool	5.00			3282.00	
Packer	5.00			3287.00	21.00 Bottom Of Top Packer
Packer	5.00			3292.00	
Stubb	1.00			3293.00	
Perforations	3.00			3296.00	
Recorder	0.00	8360	Inside	3296.00	
Recorder	0.00	8673	Outside	3296.00	
Perforations	25.00			3321.00	
Bullnose	3.00			3324.00	32.00 Bottom Packers & Anchor

Total Tool Length: 53.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63094

DST#: 1

ATTN: Marc Dow ning

Test Start: 2017.11.04 @ 06:20:13

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: 6.34 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Mud w / show of oil	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

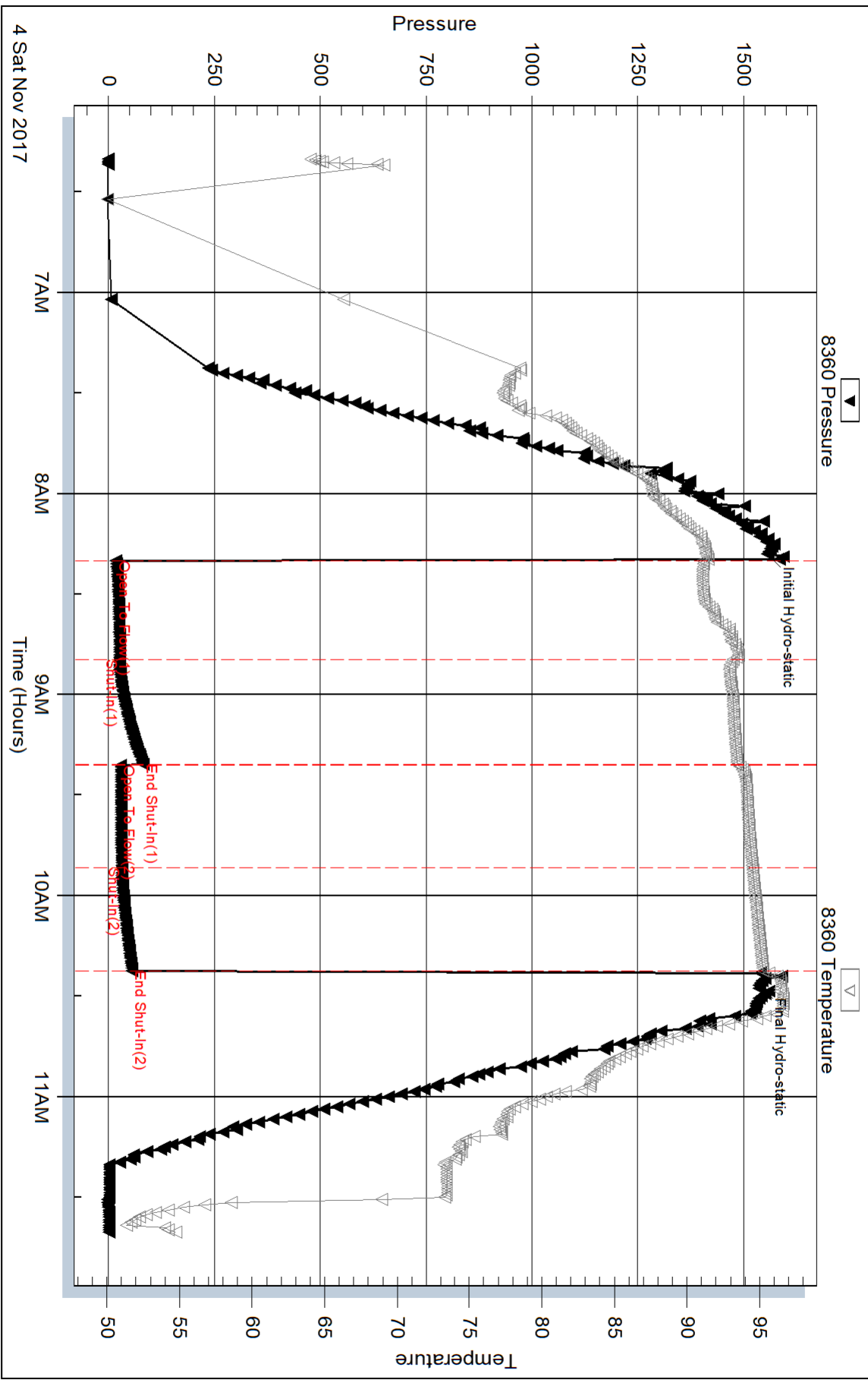
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

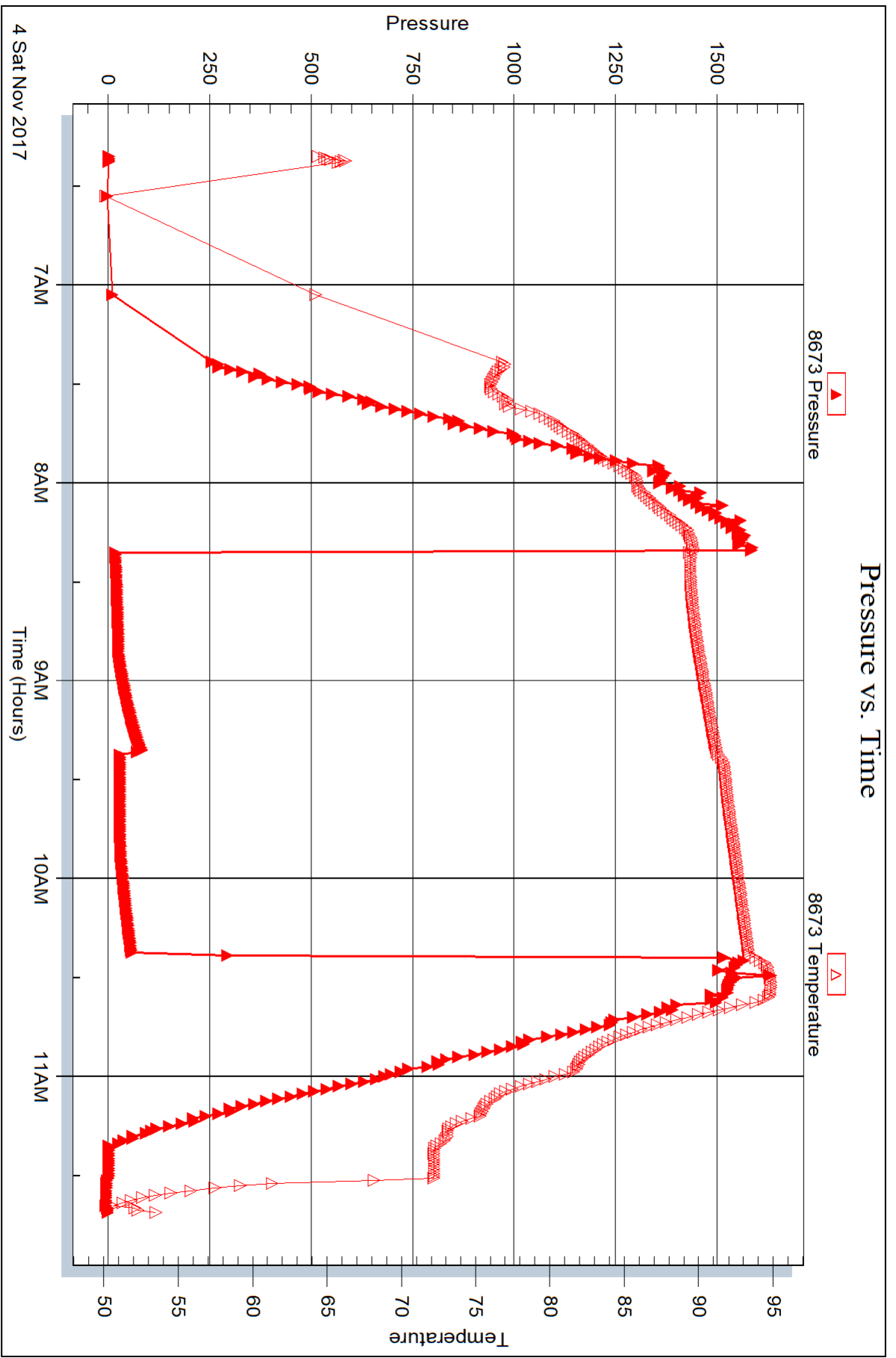


Serial #: 8673

Outside Dow n/mg-Nelson Oil Co Inc

Dechant Trust #1

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Dechant Trust #1

6-15s-18w Ellis,KS

Start Date: 2017.11.04 @ 18:20:57

End Date: 2017.11.05 @ 00:30:36

Job Ticket #: 63095 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.11.07 @ 08:27:26



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

ATTN: Marc Dow ning

Job Ticket: 63095

DST#: 2

Test Start: 2017.11.04 @ 18:20:57

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:09:22

Time Test Ended: 00:30:36

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 77

Interval: 3321.00 ft (KB) To 3348.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3348.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press@RunDepth: 88.92 psig @ 3322.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.04

End Date:

2017.11.05

Last Calib.: 2017.11.04

Start Time: 18:20:57

End Time:

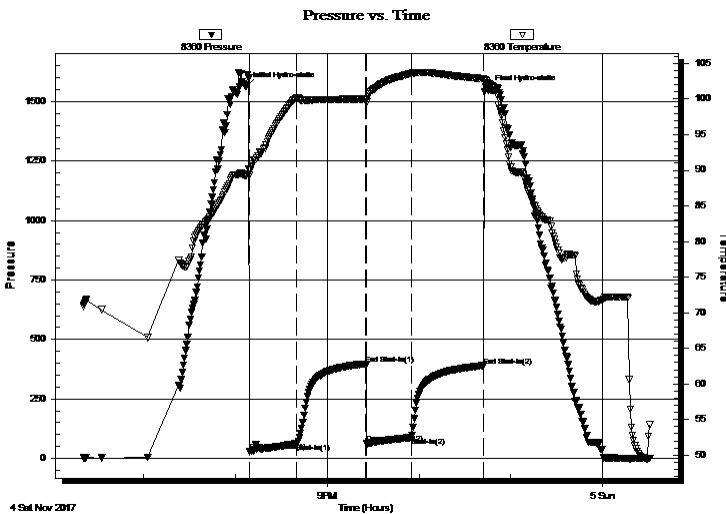
00:30:36

Time On Btm: 2017.11.04 @ 20:07:22

Time Off Btm: 2017.11.04 @ 22:45:06

TEST COMMENT: 30-IFP-BOB in 8 min
45-ISIP-surface bl bk
30-FFP-BOB in 7 min
45-FSIP-3/4" bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1562.80	89.29	Initial Hydro-static
2	29.08	89.29	Open To Flow (1)
33	61.36	100.05	Shut-In(1)
78	397.51	100.00	End Shut-In(1)
79	63.61	100.00	Open To Flow (2)
108	88.92	103.60	Shut-In(2)
155	389.45	102.87	End Shut-In(2)
158	1548.68	102.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	SOCMW 2%O10%M88%W	0.60
62.00	O&GCWM 15%G10%O35%W40%M	0.87
35.00	HO&GCM 15%G30%O55%M	0.49
0.00	530' 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

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63095

DST#: 2

ATTN: Marc Dow ning

Test Start: 2017.11.04 @ 18:20:57

Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.80 inches	Volume: 46.15 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 46.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3321.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	27.00 ft				
Tool Length:	48.00 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			3301.00	
Shut In Tool	5.00			3306.00	
Hydraulic tool	5.00			3311.00	
Packer	5.00			3316.00	21.00 Bottom Of Top Packer
Packer	5.00			3321.00	
Stubb	1.00			3322.00	
Recorder	0.00	8360	Inside	3322.00	
Recorder	0.00	8673	Outside	3322.00	
Perforations	23.00			3345.00	
Bullnose	3.00			3348.00	27.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63095

DST#: 2

ATTN: Marc Dow ning

Test Start: 2017.11.04 @ 18:20:57

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:

75000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.12 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	SOCMW 2%O10%M88%W	0.596
62.00	O&GCWM 15%G10%O35%W40%M	0.870
35.00	HO&GCM 15%G30%O55%M	0.491
0.00	530' GIP	0.000

Total Length: 159.00 ft

Total Volume: 1.957 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

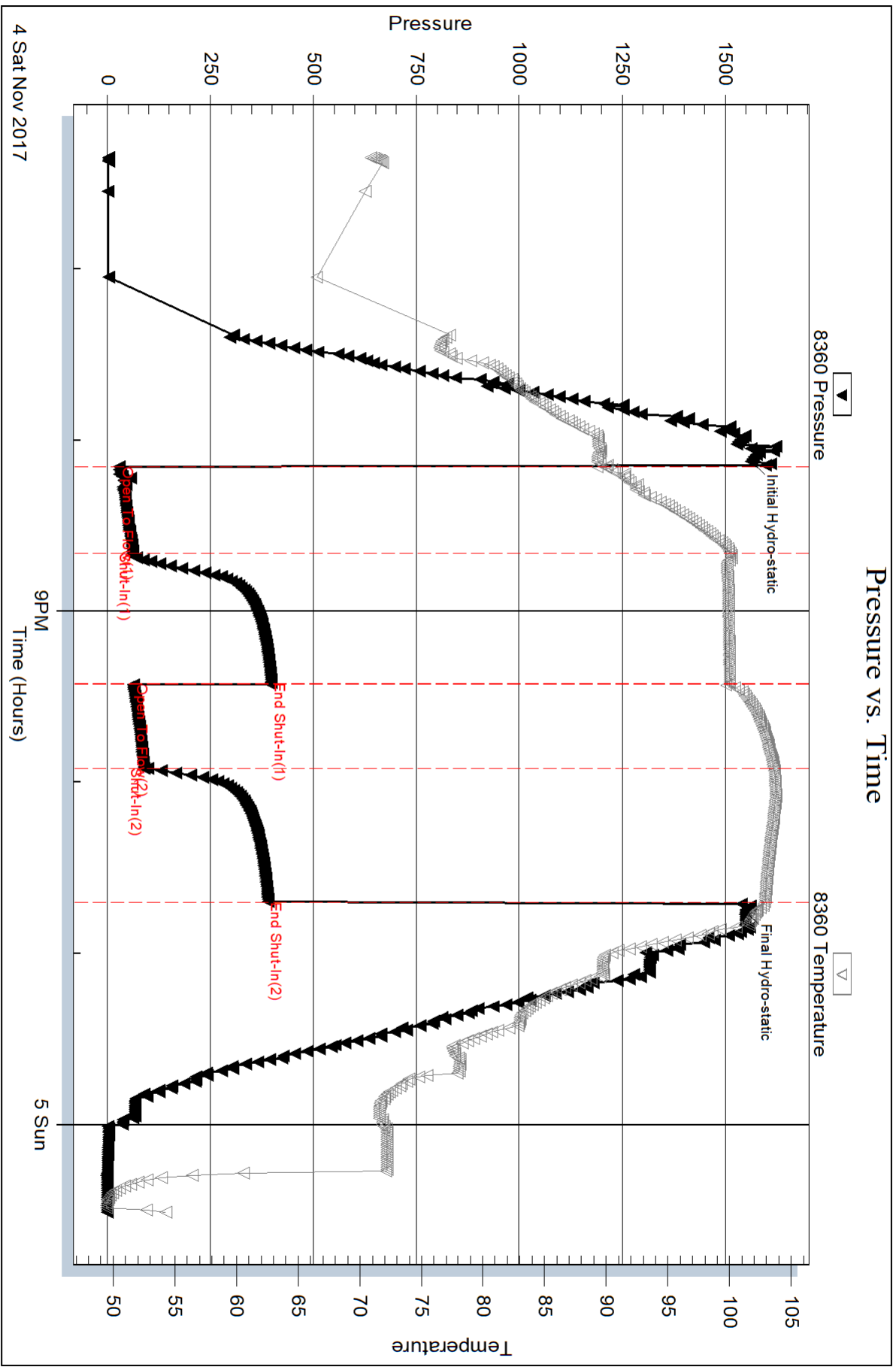
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .1@70F

Pressure vs. Time



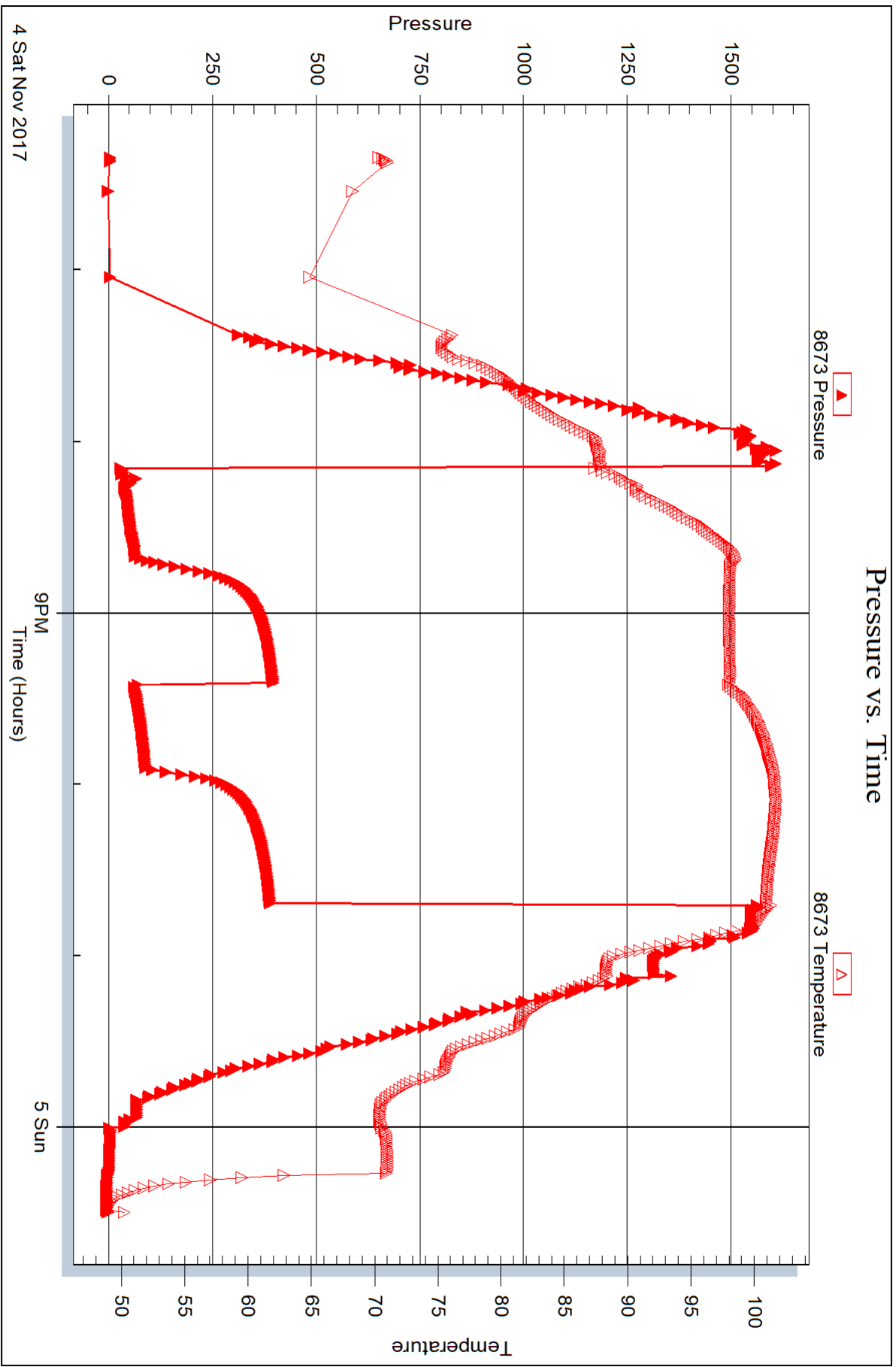
Serial #: 8673

Outside

Dow nina-Nelson Oil Co Inc

Dechant Trust #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63095

Printed: 2017.11.07 @ 08:27:27



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Dechant Trust #1

6-15s-18w Ellis,KS

Start Date: 2017.11.05 @ 05:55:49

End Date: 2017.11.05 @ 11:35:28

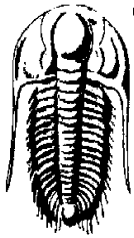
Job Ticket #: 63096 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.11.07 @ 08:26:43



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

ATTN: Marc Dow ning

Job Ticket: 63096

DST#: 3

Test Start: 2017.11.05 @ 05:55:49

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:03:29

Time Test Ended: 11:35:28

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 77

Interval: 3346.00 ft (KB) To 3370.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3370.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press@RunDepth: 71.30 psig @ 3347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.05 End Date: 2017.11.05

Last Calib.: 2017.11.05

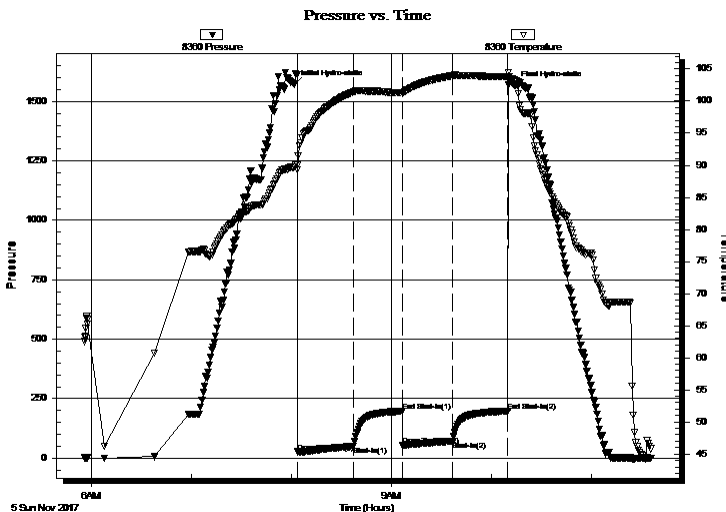
Start Time: 05:55:49 End Time: 11:35:28

Time On Btm: 2017.11.05 @ 08:01:29

Time Off Btm: 2017.11.05 @ 10:13:28

TEST COMMENT: 30-IFP-BOB in 4 min
30-ISIP-no bl bk
30-FFP-w k to BOB in 20 min
30-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.73	89.72	Initial Hydro-static
2	25.88	89.29	Open To Flow (1)
36	49.23	101.42	Shut-In(1)
65	197.30	101.30	End Shut-In(1)
65	51.88	101.24	Open To Flow (2)
95	71.30	103.95	Shut-In(2)
129	197.21	103.80	End Shut-In(2)
132	1568.78	103.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	MW 10%M90%W	0.99
25.00	SOCMW 2%O30%M68%W	0.35
0.00	250' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63096

DST#: 3

ATTN: Marc Dow ning

Test Start: 2017.11.05 @ 05:55:49

Tool Information

Drill Pipe:	Length: 3326.00 ft	Diameter: 3.80 inches	Volume: 46.66 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 46.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3346.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	24.00 ft			
Tool Length:	45.00 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			3326.00	
Shut In Tool	5.00			3331.00	
Hydraulic tool	5.00			3336.00	
Packer	5.00			3341.00	21.00 Bottom Of Top Packer
Packer	5.00			3346.00	
Stubb	1.00			3347.00	
Recorder	0.00	8360	Inside	3347.00	
Recorder	0.00	8673	Outside	3347.00	
Perforations	20.00			3367.00	
Bullnose	3.00			3370.00	24.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63096

DST#: 3

ATTN: Marc Dow ning

Test Start: 2017.11.05 @ 05:55:49

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:

85000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	MW 10%M90%W	0.989
25.00	SOCMW 2%O30%M68%W	0.351
0.00	250' GIP	0.000

Total Length: 115.00 ft Total Volume: 1.340 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

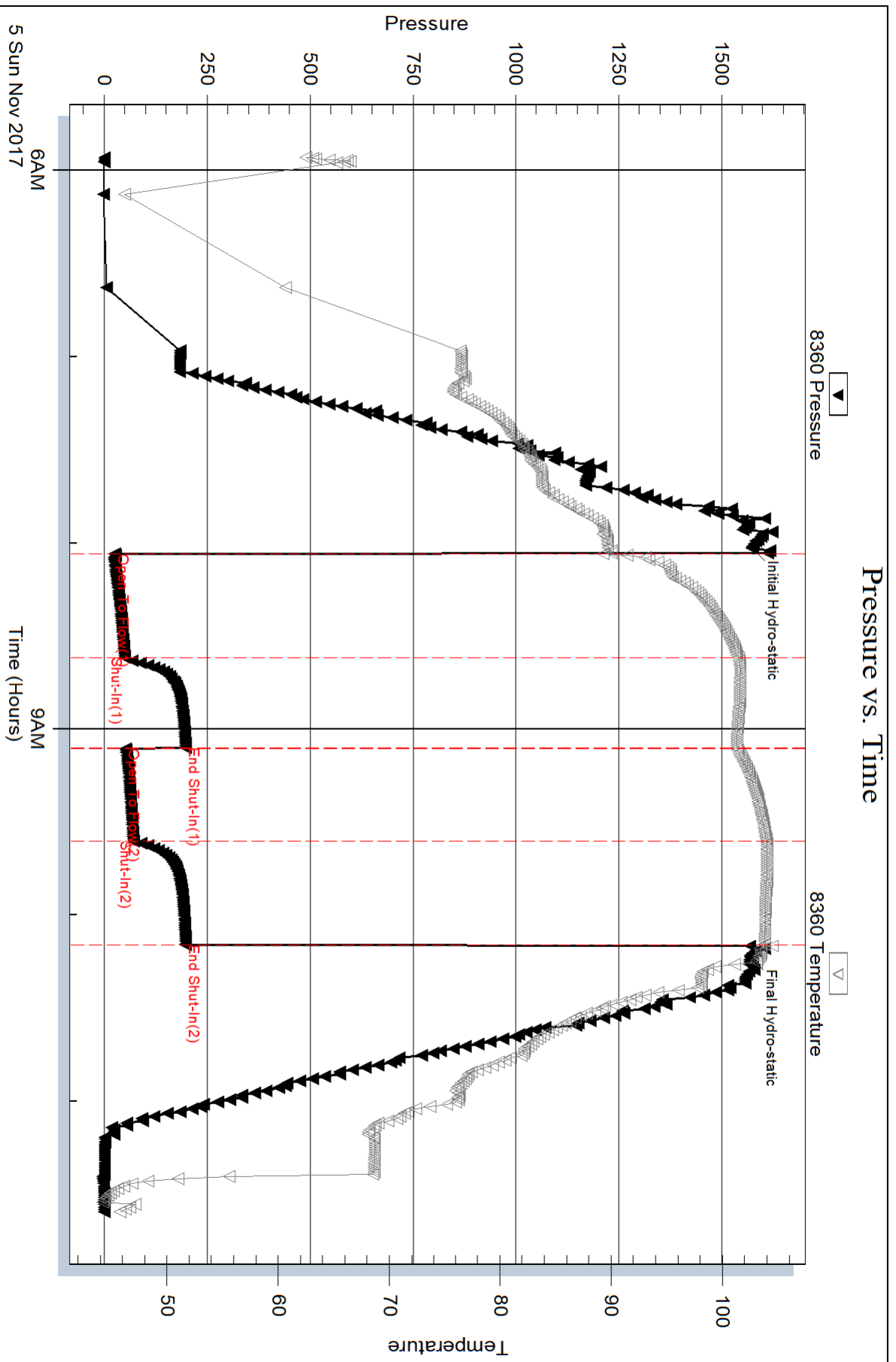
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09@70F

Pressure vs. Time



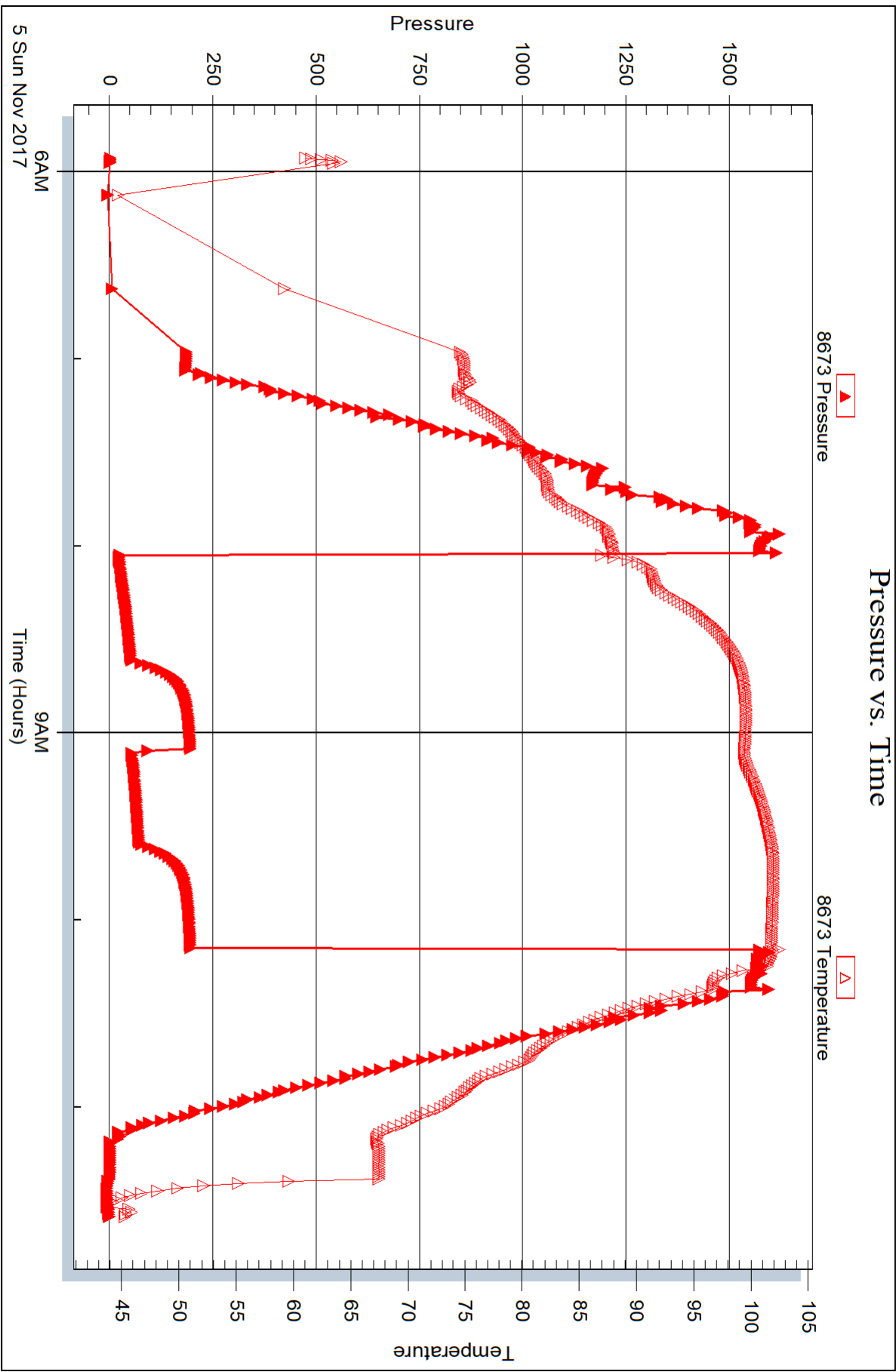
Serial #: 8673

Outside

Dow nlng-Nelson Oil Co Inc

Dechant Trust #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63096

Printed: 2017.11.07 @ 08:26:45



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Dechant Trust #1

6-15s-18w Ellis,KS

Start Date: 2017.11.06 @ 02:06:04

End Date: 2017.11.06 @ 07:12:43

Job Ticket #: 63098 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.11.07 @ 08:26:10



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

ATTN: Marc Dow ning

Job Ticket: 63098

DST#: 4

Test Start: 2017.11.06 @ 02:06:04

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:53:14

Time Test Ended: 07:12:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 77

Interval: 3437.00 ft (KB) To 3507.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3507.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press@RunDepth: 22.26 psig @ 3442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.06

End Date:

2017.11.06

Last Calib.: 2017.11.06

Start Time: 02:06:04

End Time:

07:12:43

Time On Btm: 2017.11.06 @ 03:50:59

Time Off Btm: 2017.11.06 @ 05:57:29

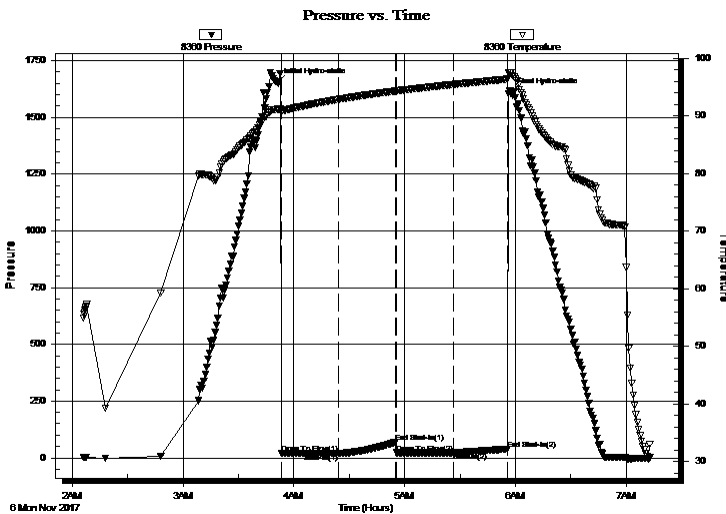
TEST COMMENT: 30-IFP-w k bl thru-out 1/4" bl

30-ISIP-no bl bk

30-FFP-no bl

30-FSIP-no bl bk

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1651.83	91.17	Initial Hydro-static
3	19.45	90.60	Open To Flow (1)
33	19.74	92.87	Shut-In(1)
64	68.80	94.33	End Shut-In(1)
65	21.81	94.34	Open To Flow (2)
96	22.26	95.46	Shut-In(2)
125	38.48	96.40	End Shut-In(2)
127	1606.99	97.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63098

DST#: 4

ATTN: Marc Dow ning

Test Start: 2017.11.06 @ 02:06:04

Tool Information

Drill Pipe:	Length: 3406.00 ft	Diameter: 3.80 inches	Volume: 47.78 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 47.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3437.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	70.00 ft			
Tool Length:	91.00 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			3417.00	
Shut In Tool	5.00			3422.00	
Hydraulic tool	5.00			3427.00	
Packer	5.00			3432.00	21.00 Bottom Of Top Packer
Packer	5.00			3437.00	
Stubb	1.00			3438.00	
Perforations	4.00			3442.00	
Recorder	0.00	8360	Inside	3442.00	
Recorder	0.00	8673	Outside	3442.00	
Blank Spacing	33.00			3475.00	
Perforations	29.00			3504.00	
Bullnose	3.00			3507.00	70.00 Bottom Packers & Anchor

Total Tool Length: 91.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63098

DST#: 4

ATTN: Marc Dow ning

Test Start: 2017.11.06 @ 02:06:04

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

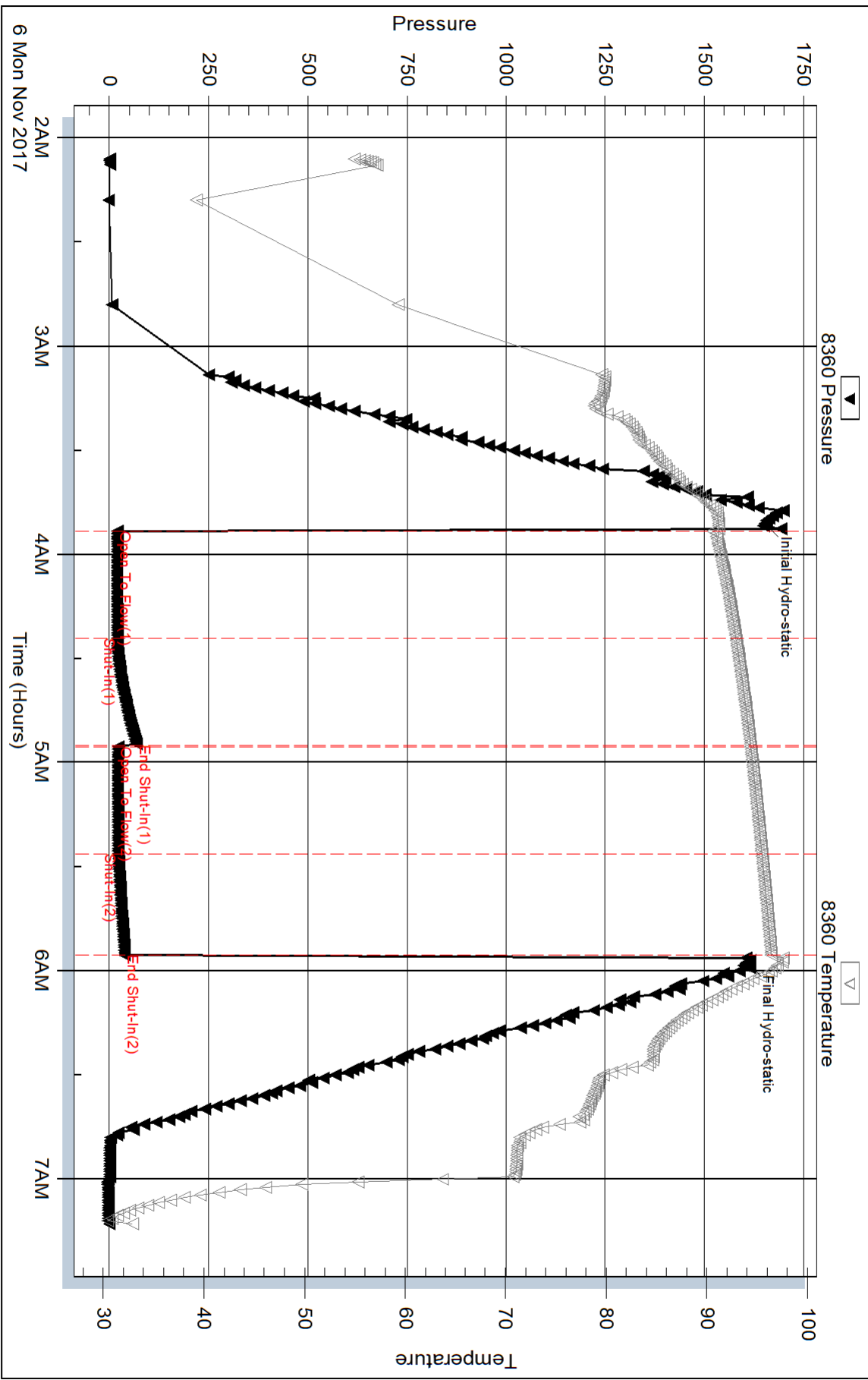
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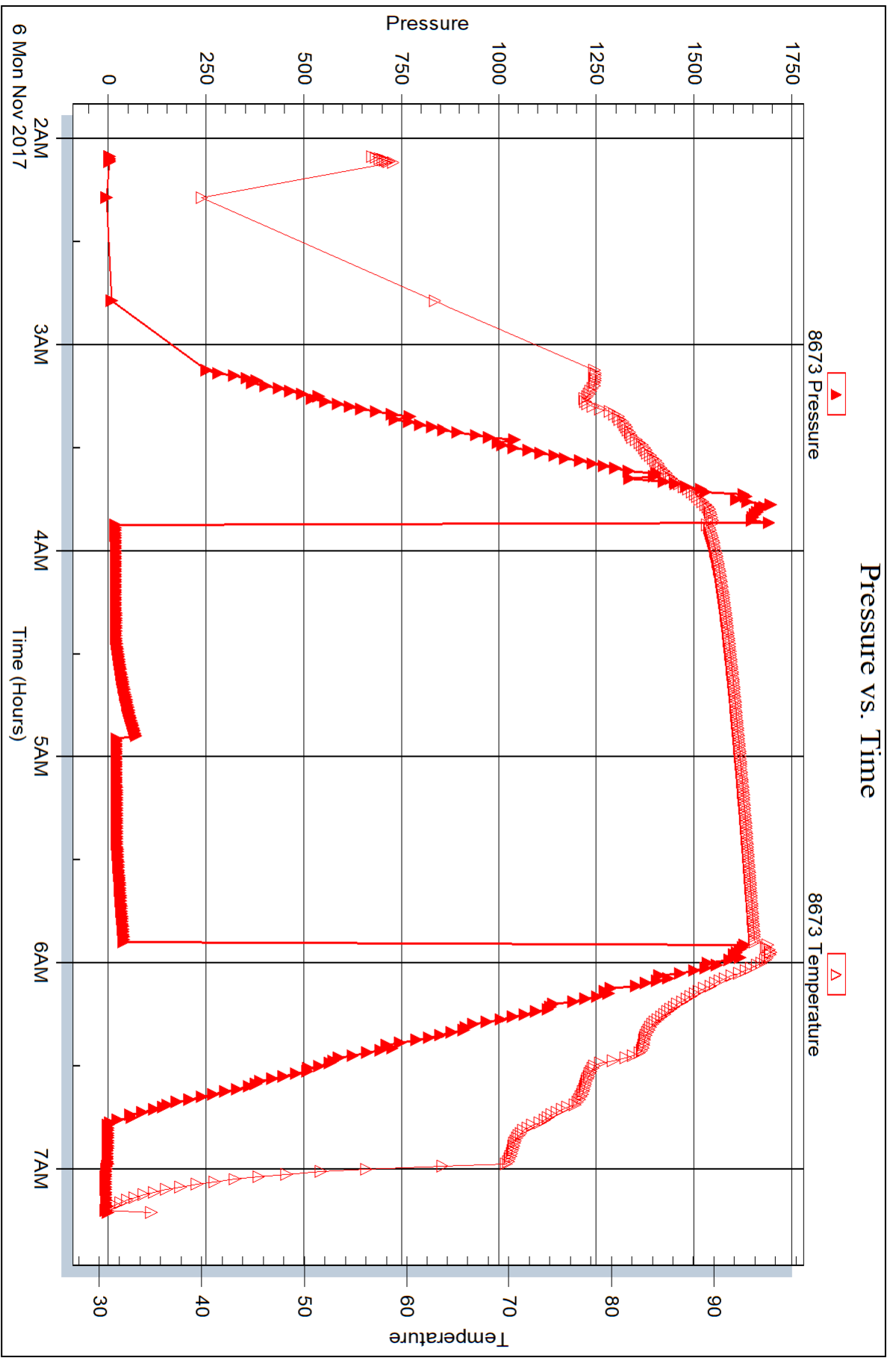
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Dechant Trust #1

6-15s-18w Ellis,KS

Start Date: 2017.11.06 @ 21:20:54

End Date: 2017.11.07 @ 04:01:03

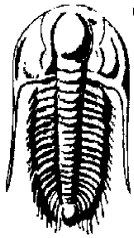
Job Ticket #: 63099 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.11.07 @ 08:25:39



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63099

DST#: 5

ATTN: Marc Dow ning

Test Start: 2017.11.06 @ 21:20:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:37:49

Time Test Ended: 04:01:03

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 77

Interval: 3600.00 ft (KB) To 3630.00 ft (KB) (TVD)

Reference Elevations: 2030.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2022.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8360

Inside

Press@RunDepth: 138.64 psig @ 3602.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.11.06

End Date:

2017.11.07

Last Calib.: 2017.11.07

Start Time: 21:20:54

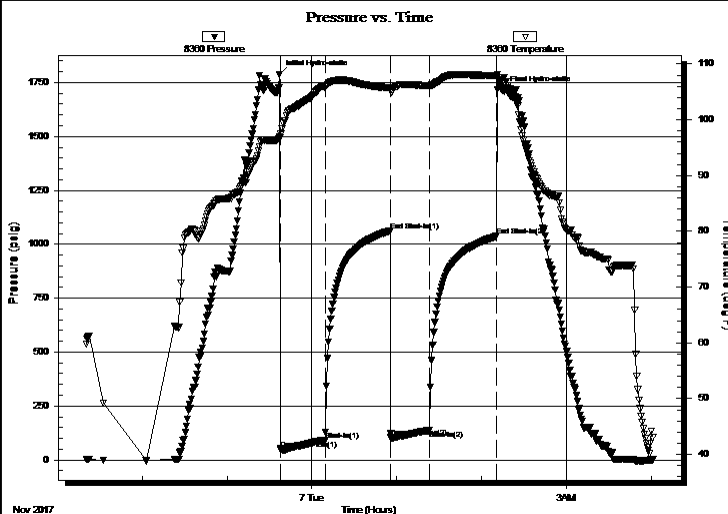
End Time:

04:01:03

Time On Btm: 2017.11.06 @ 23:37:04

Time Off Btm: 2017.11.07 @ 02:15:03

TEST COMMENT: 30-IFP-BOB in 12 min
45-ISIP-surface bl bk
30-FFP-w k to a gd bl 1/2" to 8" bl
45-FSIP-1/2" bl bk



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.04	96.97	Initial Hydro-static
1	46.87	96.75	Open To Flow (1)
33	92.29	105.84	Shut-In(1)
78	1063.33	105.72	End Shut-In(1)
79	103.34	105.30	Open To Flow (2)
106	138.64	106.09	Shut-In(2)
154	1037.92	107.93	End Shut-In(2)
158	1711.23	107.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GMO 15%G30%M55%O	0.60
260.00	CO	3.65
0.00	235' GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63099

DST#: 5

ATTN: Marc Dow ning

Test Start: 2017.11.06 @ 21:20:54

Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 50.37 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3600.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	30.00 ft				
Tool Length:	51.00 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			3580.00	
Shut In Tool	5.00			3585.00	
Hydraulic tool	5.00			3590.00	
Packer	5.00			3595.00	21.00 Bottom Of Top Packer
Packer	5.00			3600.00	
Stubb	1.00			3601.00	
Perforations	1.00			3602.00	
Recorder	0.00	8360	Inside	3602.00	
Recorder	0.00	8673	Outside	3602.00	
Perforations	25.00			3627.00	
Bullnose	3.00			3630.00	30.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Dechant Trust #1

Job Ticket: 63099

DST#: 5

ATTN: Marc Dow ning

Test Start: 2017.11.06 @ 21:20:54

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GMO 15%G30%M55%O	0.596
260.00	CO	3.647
0.00	235 ' GIP	0.000

Total Length: 322.00 ft Total Volume: 4.243 bbl

Num Fluid Samples: 0

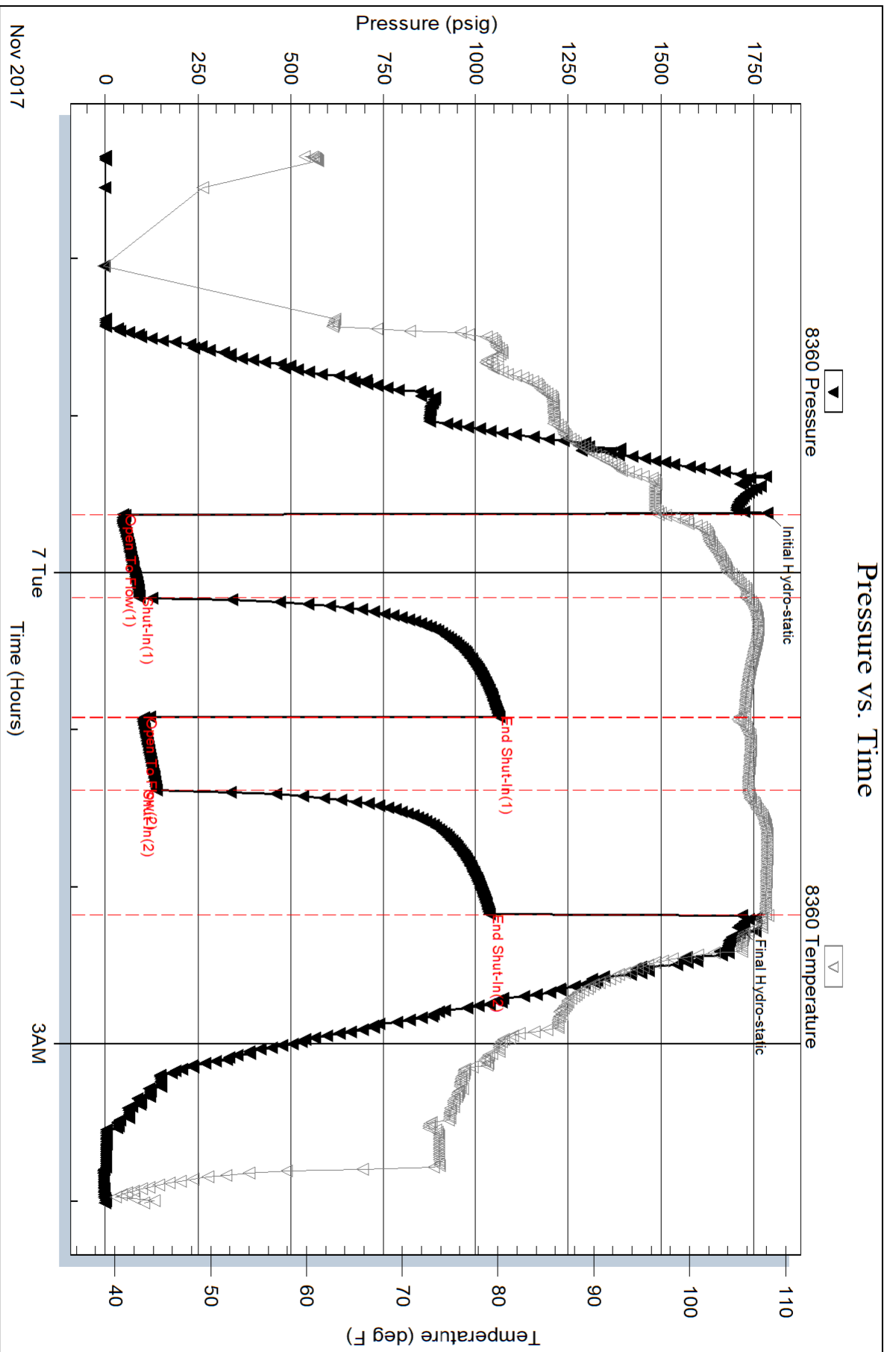
Num Gas Bombs: 0

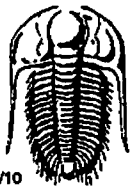
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63094

Well Name & No. Dechant Trust #1 Test No. 1 Date 11-4-17
 Company Downing-Nelson Oil Co, Inc Elevation 2030 KB 2022 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig Discovery 1194
 Location: Sec. 6 Twp. 15^s Rge. 18^w Co. ELLIS State Ks

Interval Tested 3292-3324 Zone Tested LKC "A"
 Anchor Length 32 Drill Pipe Run 3263 Mud Wt. 8.7
 Top Packer Depth 3287 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3292 Wt. Pipe Run - WL 6.4
 Total Depth 3324 Chlorides 3000 ppm System LCM 2#

Blow Description TFP - surface blow thru-out
ISTP - NO Blow
FFP - Weak Blow, 1/2" Blow
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud</u>				
	<u>w/slow flow</u>				

Rec Total 20 BHT 95 Gravity - API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 1555
- (B) First Initial Flow 17
- (C) First Final Flow 26
- (D) Initial Shut-In 82
- (E) Second Initial Flow 29
- (F) Second Final Flow 31
- (G) Final Shut-In 55
- (H) Final Hydrostatic 1536

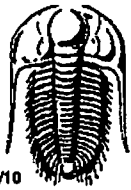
- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 22RT 16.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1066.50

T-On Location 0445
 T-Started 0620
 T-Open 0815
 T-Pulled 1015
 T-Out 1140

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1066.50
 MP/DST Disc't _____

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

Approved By _____ Our Representative RAY SCHWAGER Yhad
404



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63095

Well Name & No. Dechant Trust #1 Test No. 2 Date 11-4-17
 Company Downing-Nelson Oil Co Inc Elevation 2030 KB 2022 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery rig 4
 Location: Sec. 6 Twp. 15^s Rge. 18^w Co. ELLIS State Ks

Interval Tested 3321-3348 Zone Tested LKC "C"
 Anchor Length 27 Drill Pipe Run _____ Mud Wt. 8.6
 Top Packer Depth 3316 Drill Collars Run 30 Vis 56
 Bottom Packer Depth 3321 Wt. Pipe Run — WL 7.2
 Total Depth 3348 Chlorides 5000 ppm System LCM 2th

Blow Description IFP - BOBIN 8min
ISTP - SURFACE Blow Back
FFP - BOBIN 7min
FSTP - 3/4" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>530</u>	<u>GIP</u>				
<u>35</u>	<u>H0+6CM</u>	<u>15</u>	<u>30</u>	<u>55</u>	
<u>62</u>	<u>0+6CMW</u>	<u>15</u>	<u>10</u>	<u>35</u>	<u>40</u>
<u>62</u>	<u>50CMW</u>		<u>2</u>	<u>88</u>	<u>10</u>

Rec Total 159 BHT 102 Gravity — API RW .1 @ 70 °F Chlorides 75000 ppm

(A) Initial Hydrostatic 1562
 (B) First Initial Flow 29
 (C) First Final Flow 61
 (D) Initial Shut-In 397
 (E) Second Initial Flow 63
 (F) Second Final Flow 88
 (G) Final Shut-In 389
 (H) Final Hydrostatic 1548

Test 1050
 Jars _____
 Safety Joint _____
 Circ Sub _____
 Hourly Standby _____
 Mileage 22RT 16.50
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1066.50

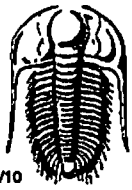
T-On Location 1720
 T-Started 1820
 T-Open 2005
 T-Pulled 2235
 T-Out 0030
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total _____ g
 Total 1066.50
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 46
 Final Flow 30
 Final Shut-In 45

Approved By _____

Our Representative

Ray Schwager Thank you



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63097

Well Name & No. Dechant Trust #1 Test No. 3 Date 11-5-17
 Company Downing-Nelson Oil Co Inc Elevation 2030 KB 2022 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery rig 4
 Location: Sec. 6 Twp. 15ⁿ Rge. 18^w Co. ELLIS State Ks

Interval Tested 3346-3370 Zone Tested LKC "D"
 Anchor Length 24 Drill Pipe Run 3326 Mud Wt. 9.1
 Top Packer Depth 3341 Drill Collars Run 30 Vis 53
 Bottom Packer Depth 3346 Wt. Pipe Run - WL 7.2
 Total Depth 3370 Chlorides 5000 ppm System LCM 2#

Blow Description IFP - BOBIN 4 min
TSTP - NO BLOW BACK
FFP - WPAK TO BOBIN 20 min
FSTP - NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>6TP</u>				
<u>25</u>	<u>50CMW</u>		<u>2</u>	<u>68</u>	<u>30</u>
<u>90</u>	<u>MW</u>			<u>90</u>	<u>10</u>

Rec Total 115 BHT 103 Gravity — API RW .09 @ 70 °F Chlorides 85000 ppm

- (A) Initial Hydrostatic 1572
- (B) First Initial Flow 25
- (C) First Final Flow 49
- (D) Initial Shut-In 197
- (E) Second Initial Flow 51
- (F) Second Final Flow 71
- (G) Final Shut-In 197
- (H) Final Hydrostatic 1568

- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 22 RT 16.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1066.50

T-On Location 0510
 T-Started 0555
 T-Open 0805
 T-Pulled 1005
 T-Out 1135

Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1066.50
 MP/DST Disc't _____

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

Approved By _____

Our Representative Rayschwager *Thank you*



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63098

Well Name & No. Dechant Trust #1 Test No. 4 Date 11-6-17
 Company Downing-Nelson Oil Co Inc Elevation 2030 KB 2022 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC DOWNING Rig DISBOURCY rig 4
 Location: Sec. 6 Twp. 15^S Rge. 18^W Co. ELLIS State Ks

Interval Tested 3437-3507 Zone Tested 1KC H-I-J
 Anchor Length 70 Drill Pipe Run 3406 Mud Wt. 8.9
 Top Packer Depth 3432 Drill Collars Run 30 Vis 49
 Bottom Packer Depth 3437 Wt. Pipe Run — WL 8
 Total Depth 3507 Chlorides 9000 ppm System LCM 2#

Blow Description TFP - WEAK Blow thru-out 1/4" Blow
TSIP - NO Blow BACK
FFP - NO Blow
FSIP - NO Blow BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT _____ Gravity — API RW — @ — °F Chlorides — ppm

- (A) Initial Hydrostatic 1651
- (B) First Initial Flow 19
- (C) First Final Flow 19
- (D) Initial Shut-In 68
- (E) Second Initial Flow 21
- (F) Second Final Flow 22
- (G) Final Shut-In 38
- (H) Final Hydrostatic 1606

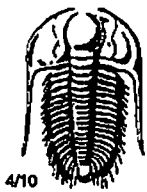
- Test 1050
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 22RT 16.50
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1066.50

T-On Location 0110
 T-Started 0205
 T-Open 0350
 T-Pulled 0550
 T-Out 0712
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1066.50
 MP/DST Disc't _____

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

Approved By _____

Our Representative RAY Schwagn Thank you



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63099

Well Name & No. Dechant Trust #1 Test No. 5 Date 11-6-17
 Company Downing-Nelson Oil Co. Inc Elevation 2030 KB 2022 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. MARC Downing Rig Discovery rig
 Location: Sec. 6 Twp. 15th Rge. 18th Co. ELLIS State Ks

Interval Tested 3600-3630 Zone Tested Arbuckle
 Anchor Length 30 Drill Pipe Run 3580 Mud Wt. 9.1
 Top Packer Depth 3595 Drill Collars Run 30 Vis 5.3
 Bottom Packer Depth 3600 Wt. Pipe Run - WL 9.2
 Total Depth 3630 Chlorides 10000 ppm System LCM 2 1/2 #

Blow Description IFP - BOB IN 12 min
ISTP - SURFACE Blow Back
FFP - Weak To A Good Blow 1/2" To 8" Blow
FSTP - 1/2" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>235</u>	<u>GTP</u>				
<u>260</u>	<u>CO</u>				
<u>62</u>	<u>GMO</u>	<u>15</u>	<u>55</u>		<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 322 BHT 108 Gravity 29 API RW - @ - °F Chlorides - ppm

- (A) Initial Hydrostatic 1787
- (B) First Initial Flow 46
- (C) First Final Flow 92
- (D) Initial Shut-In 1063
- (E) Second Initial Flow 103
- (F) Second Final Flow 138
- (G) Final Shut-In 1037
- (H) Final Hydrostatic 1711

- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 22RT 16.50
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1066.50

- T-On Location 2015
- T-Started 2120
- T-Open 2340
- T-Pulled 0210
- T-Out 0401
- Comments
- Ruined Shale Packer
- Ruined Packer
- Extra Copies
- Sub Total 0
- Total 1066.50
- MP/DST Disc't

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

Approved By _____

Our Representative RAY SCHWAGN Thank you