



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

21-12S-17W Ellis,KS

Fidelis Schmeidler B #1

Start Date: 2018.05.04 @ 22:30:00

End Date: 2018.05.05 @ 05:28:30

Job Ticket #: 63774 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.05.08 @ 14:36:35

Downing Nelson Oil Co

Fidelis Schmeidler B #1

21-12S-17W Ellis,KS

DST # 1

LKC 'D'

2018.05.04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

ATTN: Marc Downing

Job Ticket: 63774

DST#: 1

Test Start: 2018.05.04 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC 'D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:45

Time Test Ended: 05:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3418.00 ft (KB) To 3440.00 ft (KB) (TVD)

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2125.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: 32.46 psig @ 3419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.04 End Date: 2018.05.05

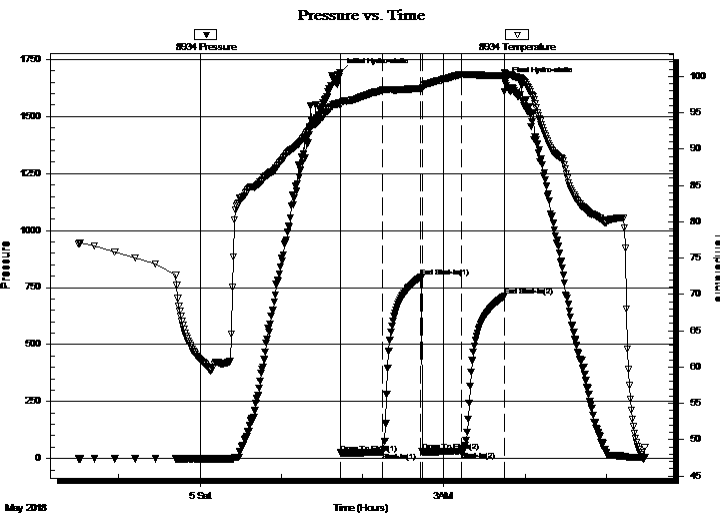
Last Calib.: 2018.05.05

Start Time: 22:30:15 End Time: 05:28:30

Time On Btm: 2018.05.05 @ 01:43:30

Time Off Btm: 2018.05.05 @ 03:45:15

TEST COMMENT: 30-IF-Weak Blow ; Built to 3/4"
30-ISI-No Return
30-FF-Weak Surface Blow
30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1693.26	96.45	Initial Hydro-static
1	24.33	95.97	Open To Flow (1)
32	27.96	98.14	Shut-In(1)
60	795.93	98.34	End Shut-In(1)
61	29.87	98.28	Open To Flow (2)
90	32.46	100.23	Shut-In(2)
122	711.43	100.12	End Shut-In(2)
122	1654.82	100.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MW 30%M 70%W	0.18

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63774

DST#: 1

ATTN: Marc Downing

Test Start: 2018.05.04 @ 22:30:00

GENERAL INFORMATION:

Formation: **LKC 'D'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:43:45

Time Test Ended: 05:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: **3418.00 ft (KB) To 3440.00 ft (KB) (TVD)**

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3440.00 ft (KB) (TVD)

2125.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: psig @ 3419.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.04

End Date:

2018.05.05

Last Calib.:

2018.05.05

Start Time: 22:30:15

End Time:

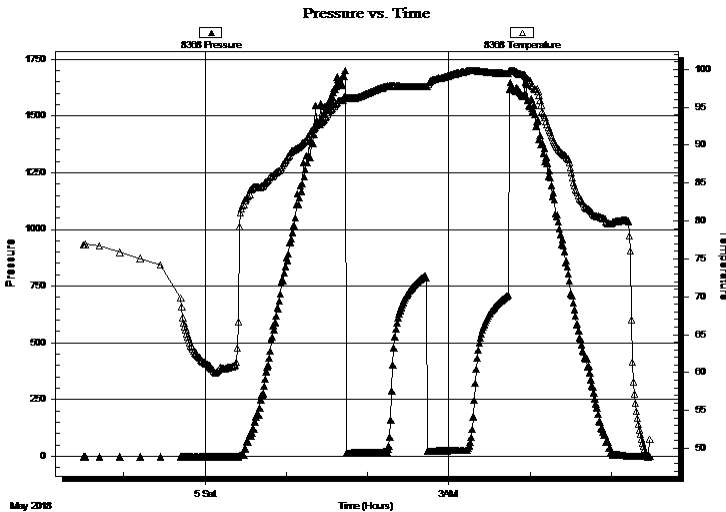
05:28:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Weak Blow ; Built to 3/4"
30-ISI-No Return
30-FF-Weak Surface Blow
30-FSI-No Return

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MW 30%M 70%W	0.18

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis, KS

Job Ticket: 63774

DST#: 1

ATTN: Marc Downing

Test Start: 2018.05.04 @ 22:30:00

Tool Information

Drill Pipe:	Length: 3118.00 ft	Diameter: 3.80 inches	Volume: 43.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 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: 78000.00 lb
			<u>Total Volume: 46.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3418.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3399.00	
Shut In Tool	5.00			3404.00	
Hydraulic tool	5.00			3409.00	
Packer	5.00			3414.00	20.00 Bottom Of Top Packer
Packer	4.00			3418.00	
Stubb	1.00			3419.00	
Recorder	0.00	8368	Inside	3419.00	
Recorder	0.00	8934	Outside	3419.00	
Perforations	18.00			3437.00	
Bullnose	3.00			3440.00	22.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63774

DST#: 1

ATTN: Marc Dow ning

Test Start: 2018.05.04 @ 22:30:00

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:

47000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
25.00	MW 30%M 70%W	0.184

Total Length: 25.00 ft Total Volume: 0.184 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

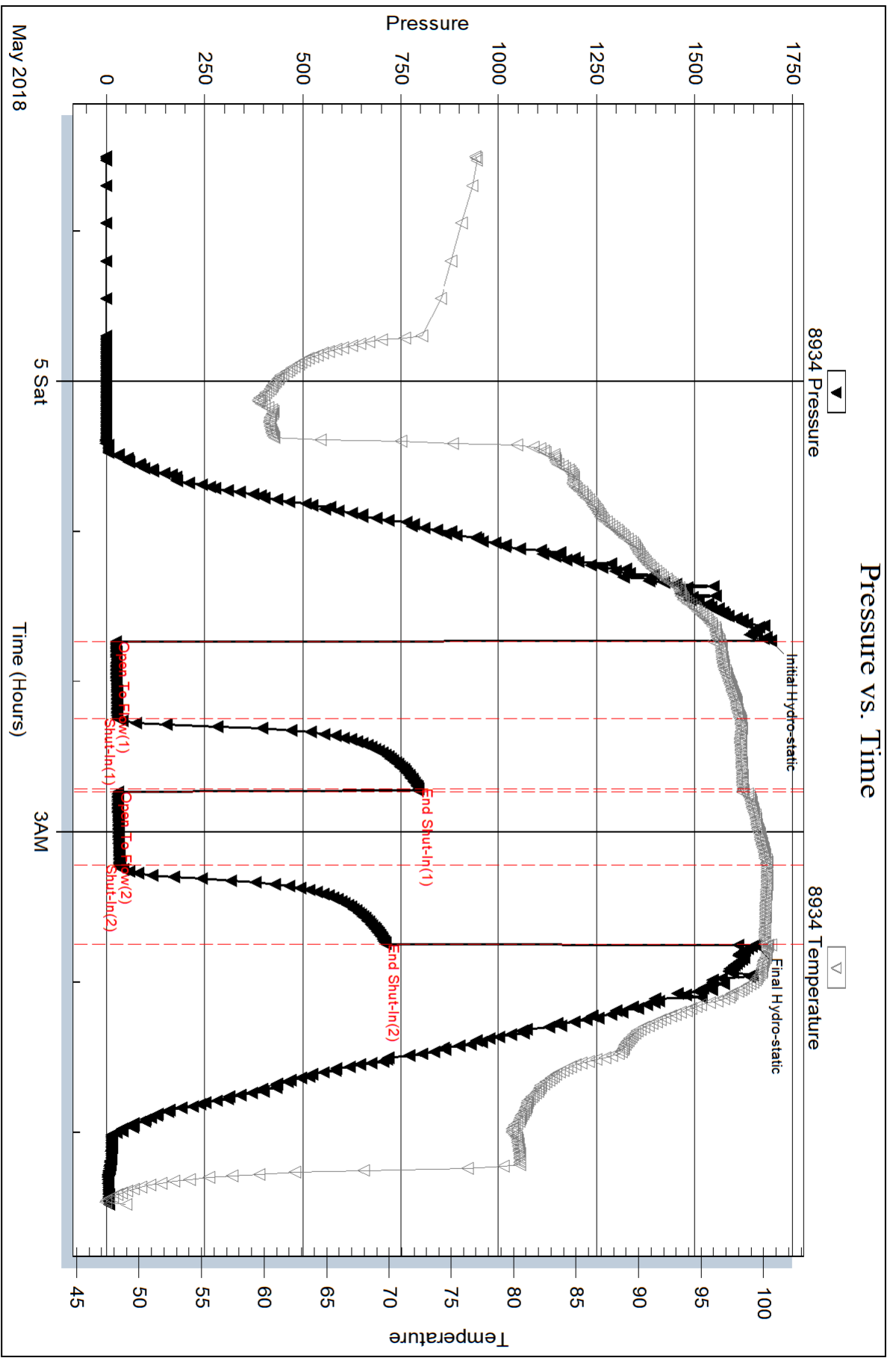
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Serial #: 8934

Outside Downing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63774

Printed: 2018.05.08 @ 14:36:36

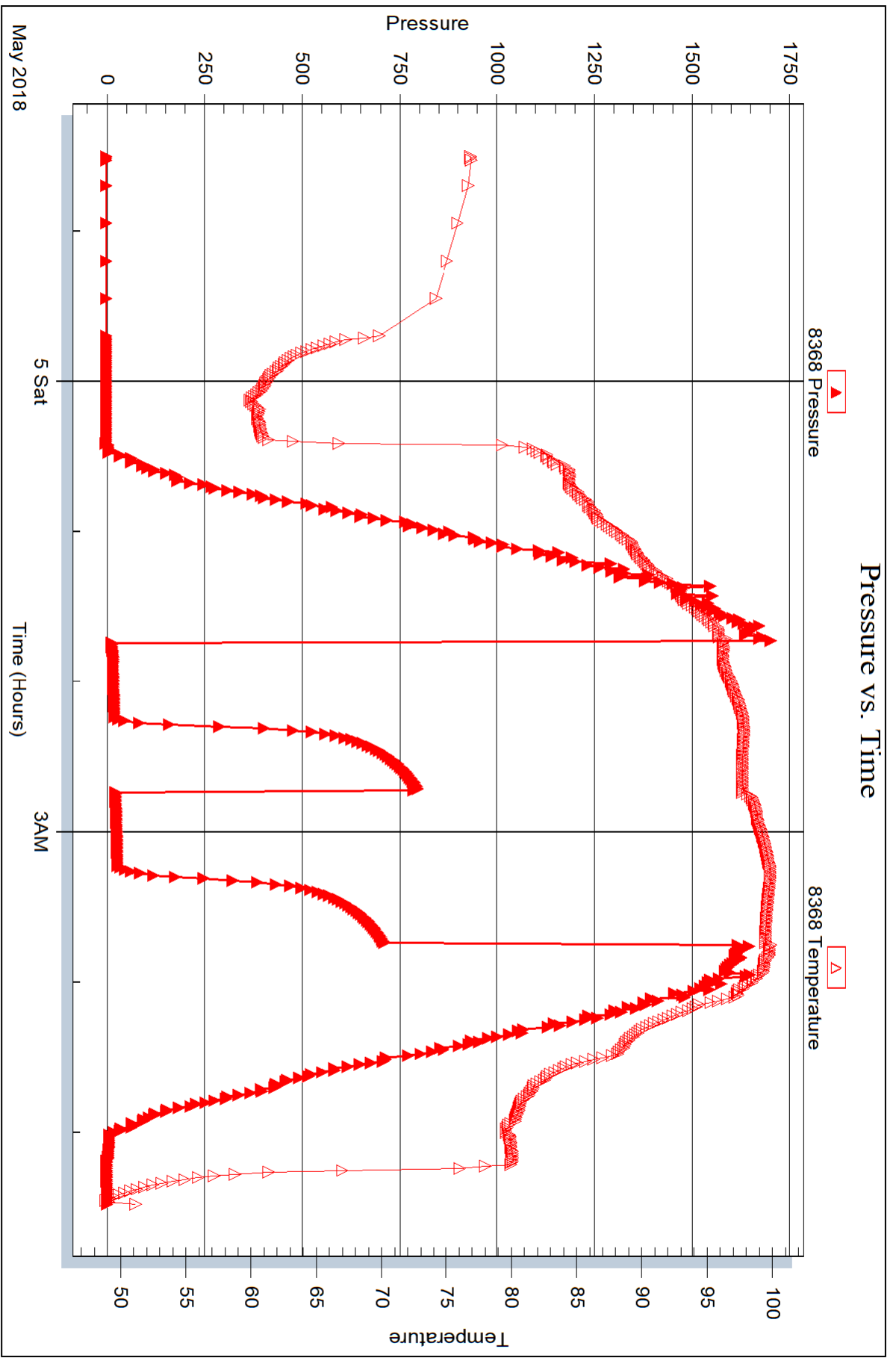
Serial #: 8368

Inside

Dow ning Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 63774

Printed: 2018.05.08 @ 14:36:36



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

21-12S-17W Ellis,KS

Fidelis Schmeidler B #1

Start Date: 2018.05.05 @ 12:49:00

End Date: 2018.05.05 @ 19:41:00

Job Ticket #: 63775 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.05.08 @ 14:26:44



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co
 PO Box 1019
 Hays, KS 67601
 ATTN: Marc Downing

Fidelis Schmeidler B #1
21-12S-17W Ellis,KS
 Job Ticket: 63775 **DST#: 2**
 Test Start: 2018.05.05 @ 12:49:00

GENERAL INFORMATION:

Formation: **LKC 'E - F'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:02:00
 Time Test Ended: 19:41:00
 Interval: **3437.00 ft (KB) To 3465.00 ft (KB) (TVD)**
 Total Depth: 3465.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2133.00 ft (KB)
 2125.00 ft (CF)
 KB to GR/CF: 8.00 ft

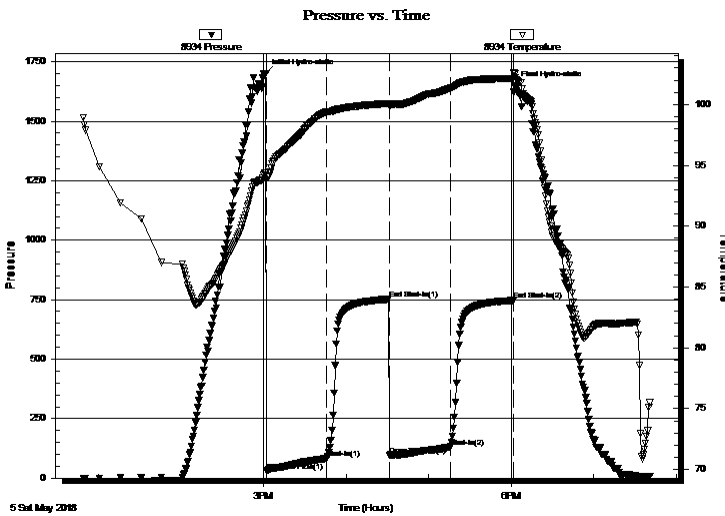
Serial #: 8934

Outside

Press@RunDepth: 130.08 psig @ 3438.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.05 End Date: 2018.05.05 Last Calib.: 2018.05.05
 Start Time: 12:49:15 End Time: 19:41:00 Time On Btm: 2018.05.05 @ 15:01:45
 Time Off Btm: 2018.05.05 @ 18:02:45

TEST COMMENT: 45-IF-Fair Blow ; BOB in 20 mins
 45-ISI-Weak Surface Blow ; Built to 1/4"
 45-FF-Fair Blow ; BOB in 19 mins
 45-FSI-Surface Blow ; Built to 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.02	94.35	Initial Hydro-static
1	30.14	93.81	Open To Flow (1)
45	83.20	99.39	Shut-In(1)
90	752.04	100.07	End Shut-In(1)
90	97.26	99.90	Open To Flow (2)
134	130.08	101.33	Shut-In(2)
180	746.97	102.11	End Shut-In(2)
181	1649.72	102.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
280.00	GSWCMO 25%G 5%W 25%M 45%O	2.06
0.00	250' GIP 100%G	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

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis, KS

Job Ticket: 63775

DST#: 2

ATTN: Marc Downing

Test Start: 2018.05.05 @ 12:49:00

Tool Information

Drill Pipe:	Length: 3117.00 ft	Diameter: 3.80 inches	Volume: 43.72 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 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: 62000.00 lb
			<u>Total Volume: 46.01 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3437.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3418.00	
Shut In Tool	5.00			3423.00	
Hydraulic tool	5.00			3428.00	
Packer	5.00			3433.00	20.00 Bottom Of Top Packer
Packer	4.00			3437.00	
Stubb	1.00			3438.00	
Recorder	0.00	8368	Inside	3438.00	
Recorder	0.00	8934	Outside	3438.00	
Perforations	24.00			3462.00	
Bullnose	3.00			3465.00	28.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63775

DST#: 2

ATTN: Marc Downing

Test Start: 2018.05.05 @ 12:49:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
280.00	GSWCMO 25%G 5%W 25%M 45%O	2.057
0.00	250' GIP 100%G	0.000

Total Length: 280.00 ft Total Volume: 2.057 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

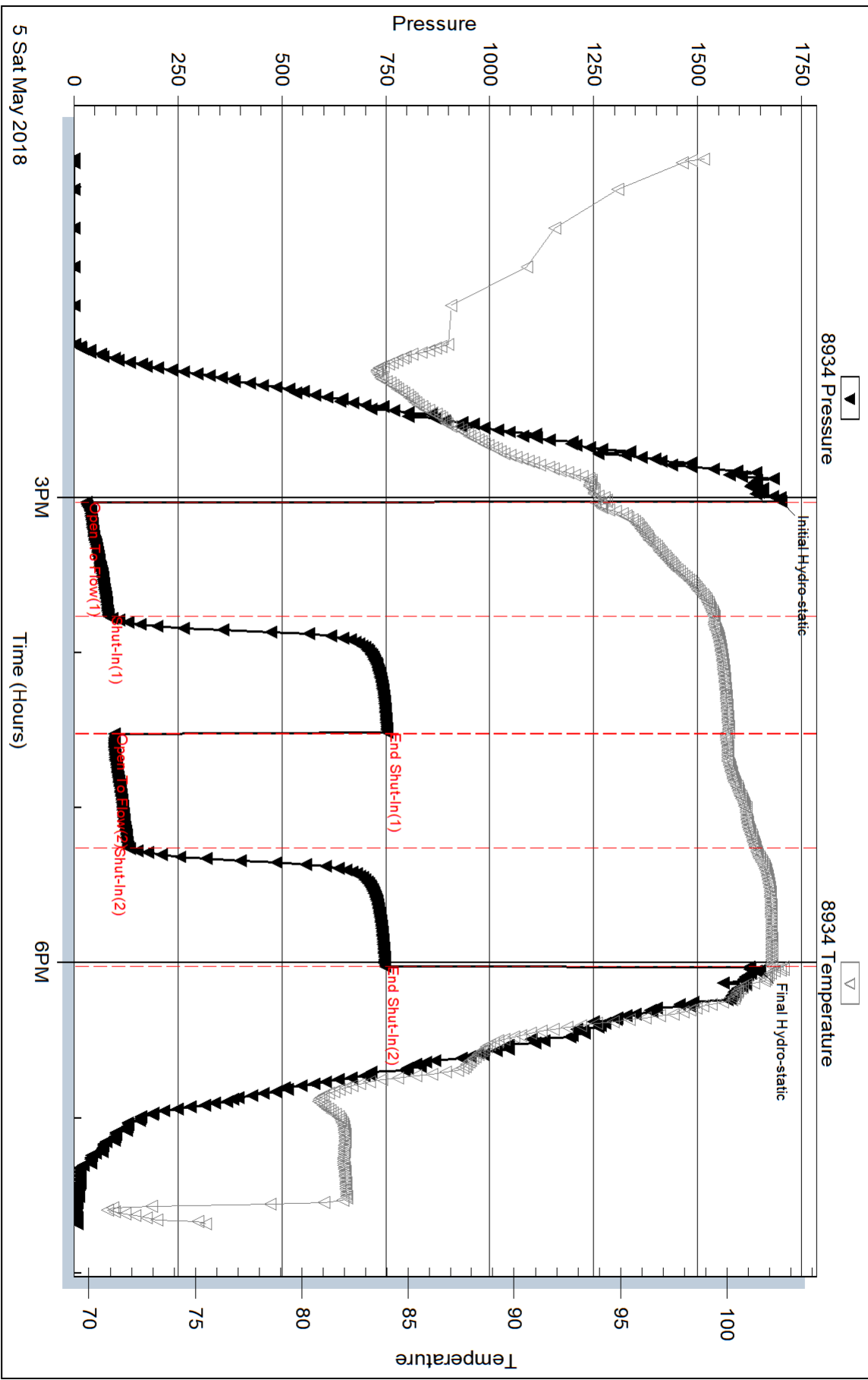
Serial #: 8934

Outside Downing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63775

Printed: 2018.05.08 @ 14:26:45

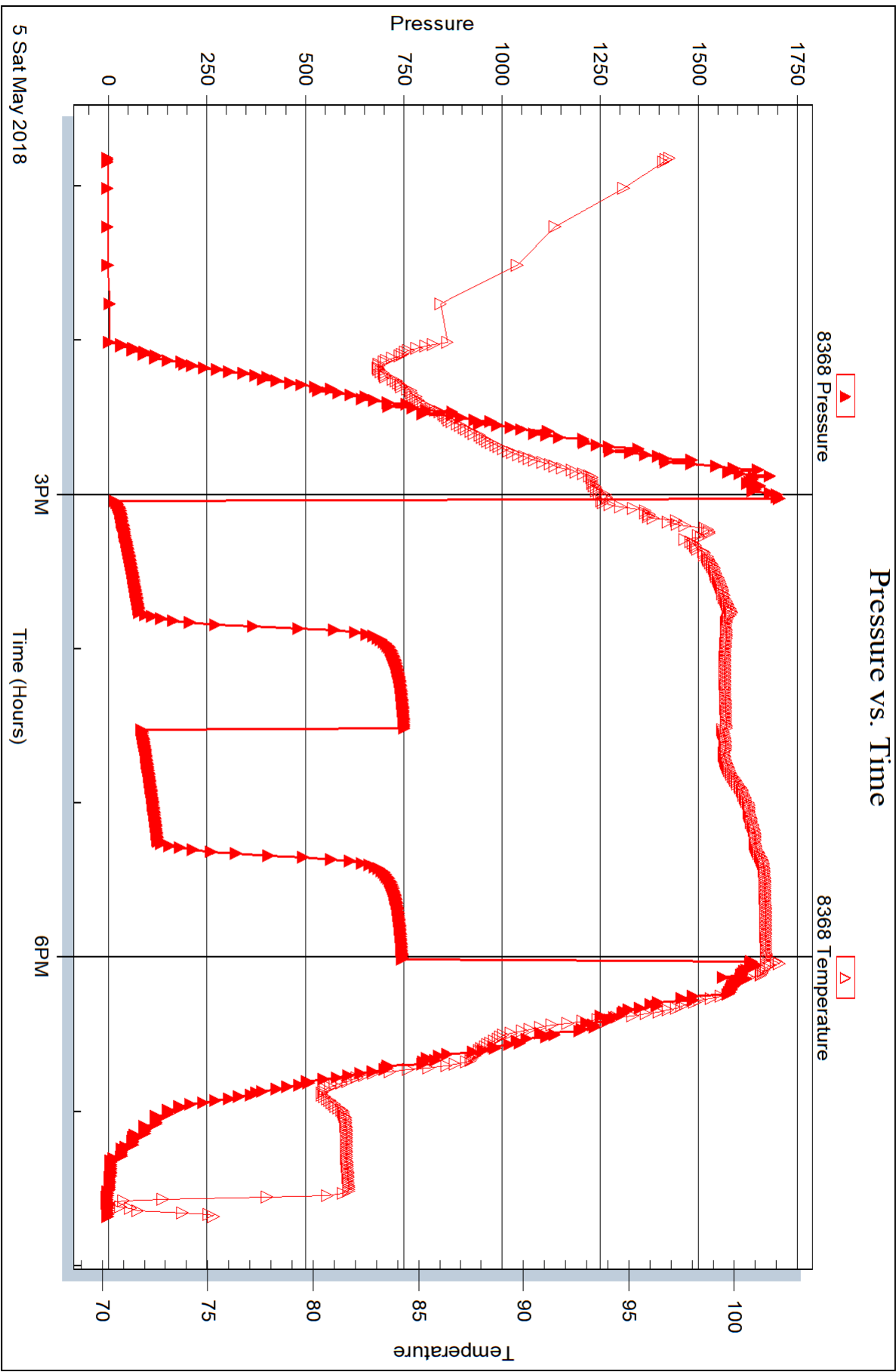
Serial #: 8368

Inside

Dow n ing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63775

Printed: 2018.05.08 @ 14:26:45



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

21-12S-17W Ellis,KS

Fidelis Schmeidler B #1

Start Date: 2018.05.06 @ 07:28:00

End Date: 2018.05.06 @ 15:16:15

Job Ticket #: 63901 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.05.08 @ 14:26:19

Downing Nelson Oil Co

Fidelis Schmeidler B #1

21-12S-17W Ellis,KS

DST # 3

LKC 'H - J'

2018.05.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

ATTN: Marc Downing

Job Ticket: 63901

DST#: 3

Test Start: 2018.05.06 @ 07:28:00

GENERAL INFORMATION:

Formation: **LKC 'H - J'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:07:00
 Time Test Ended: 15:16:15
 Interval: **3494.00 ft (KB) To 3570.00 ft (KB) (TVD)**
 Total Depth: 3570.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2133.00 ft (KB)
 2125.00 ft (CF)
 KB to GR/CF: 8.00 ft

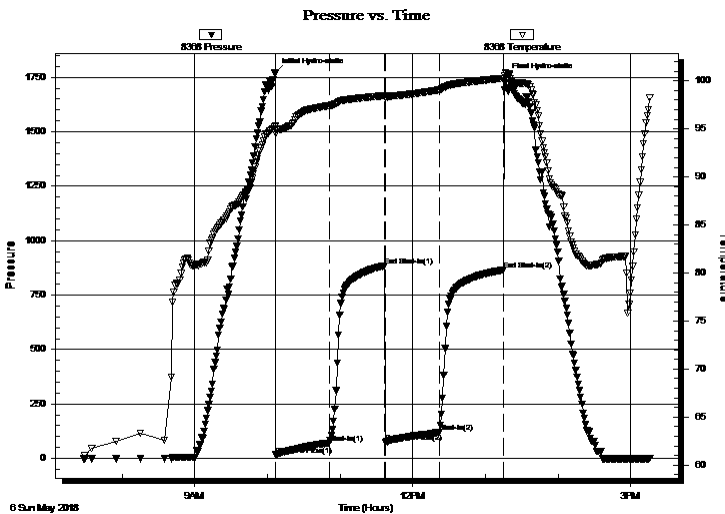
Serial #: 8368

Inside

Press@RunDepth: 120.28 psig @ 3497.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.06 End Date: 2018.05.06 Last Calib.: 2018.05.06
 Start Time: 07:28:15 End Time: 15:16:15 Time On Btm: 2018.05.06 @ 10:06:45
 Time Off Btm: 2018.05.06 @ 13:16:30

TEST COMMENT: 45-IF-Fair Blow ; BOB in 25 mins
 45-ISI-Surface Blow
 45-FF-Fair Blow ; BOB in 22 mins
 45-FSI-Surface Blow ; Built to 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.64	95.29	Initial Hydro-static
1	16.55	94.54	Open To Flow (1)
45	70.26	97.41	Shut-In(1)
91	884.48	98.46	End Shut-In(1)
91	73.31	98.22	Open To Flow (2)
135	120.28	99.05	Shut-In(2)
189	865.13	100.25	End Shut-In(2)
190	1748.09	100.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 30%G 35%M 35%O	0.88
120.00	GMCO 20%G 20%M 60%O	0.88
0.00	315' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

ATTN: Marc Dow ning

Job Ticket: 63901

DST#: 3

Test Start: 2018.05.06 @ 07:28:00

GENERAL INFORMATION:

Formation: **LKC 'H - J'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:07:00
Time Test Ended: 15:16:15
Interval: **3494.00 ft (KB) To 3570.00 ft (KB) (TVD)**
Total Depth: 3570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Spencer J. Staab
Unit No: 84
Reference Elevations: 2133.00 ft (KB)
2125.00 ft (CF)
KB to GR/CF: 8.00 ft

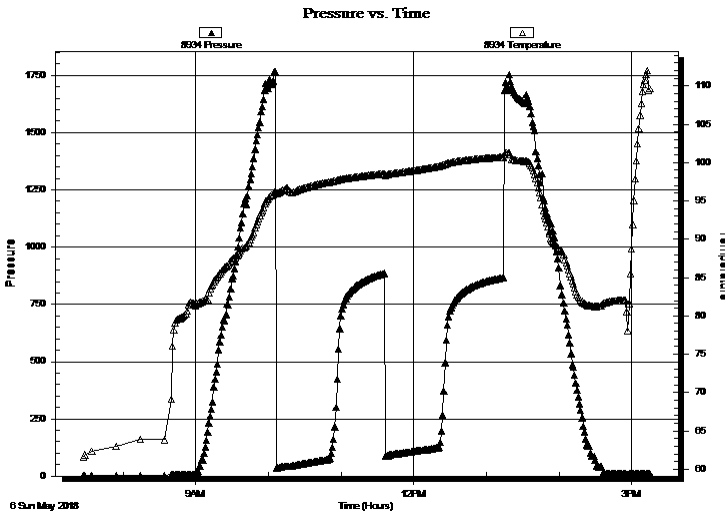
Serial #: 8934

Inside

Press@RunDepth: psig @ 3497.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2018.05.06 End Date: 2018.05.06 Last Calib.: 2018.05.06
Start Time: 07:27:15 End Time: 15:15:15 Time On Btm:
Time Off Btm:

TEST COMMENT: 45-IF-Fair Blow ; BOB in 25 mins
45-ISI-Surface Blow
45-FF-Fair Blow ; BOB in 22 mins
45-FSI-Surface Blow ; Built to 3/4"

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMO 30%G 35%M 35%O	0.88
120.00	GMCO 20%G 20%M 60%O	0.88
0.00	315' 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

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63901

DST#: 3

ATTN: Marc Downing

Test Start: 2018.05.06 @ 07:28:00

Tool Information

Drill Pipe:	Length: 3183.00 ft	Diameter: 3.80 inches	Volume: 44.65 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 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: 74000.00 lb
			<u>Total Volume: 46.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3494.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3475.00	
Shut In Tool	5.00			3480.00	
Hydraulic tool	5.00			3485.00	
Packer	5.00			3490.00	20.00 Bottom Of Top Packer
Packer	4.00			3494.00	
Stubb	1.00			3495.00	
Perforations	1.00			3496.00	
Change Over Sub	1.00			3497.00	
Recorder	0.00	8368	Inside	3497.00	
Recorder	0.00	8934	Inside	3497.00	
Drill Pipe	63.00			3560.00	
Change Over Sub	1.00			3561.00	
Perforations	6.00			3567.00	
Bullnose	3.00			3570.00	76.00 Bottom Packers & Anchor

Total Tool Length: 96.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63901

DST#: 3

ATTN: Marc Downing

Test Start: 2018.05.06 @ 07:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GMO 30%G 35%M 35%O	0.882
120.00	GMCO 20%G 20%M 60%O	0.882
0.00	315' GIP	0.000

Total Length: 240.00 ft

Total Volume: 1.764 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

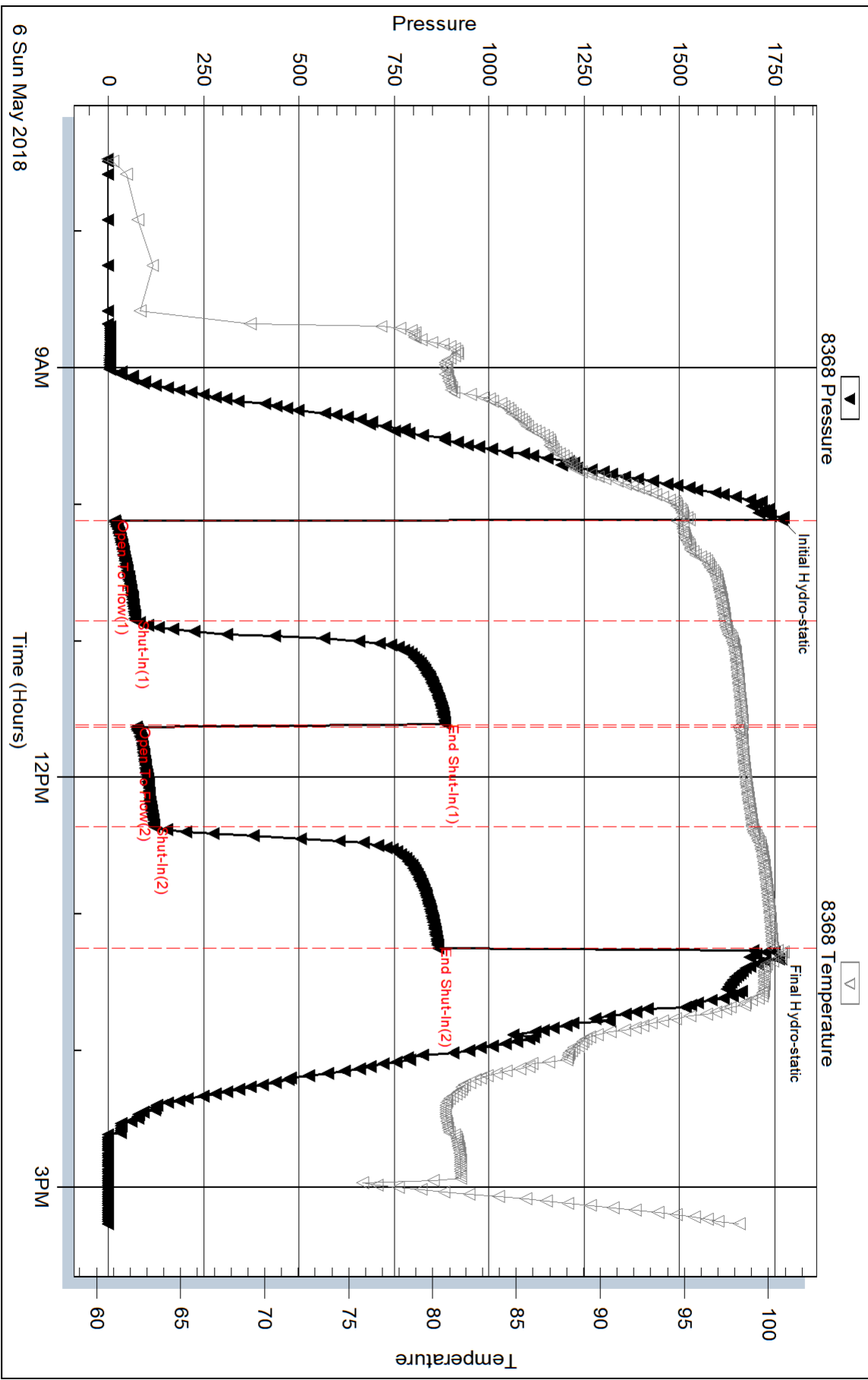
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time



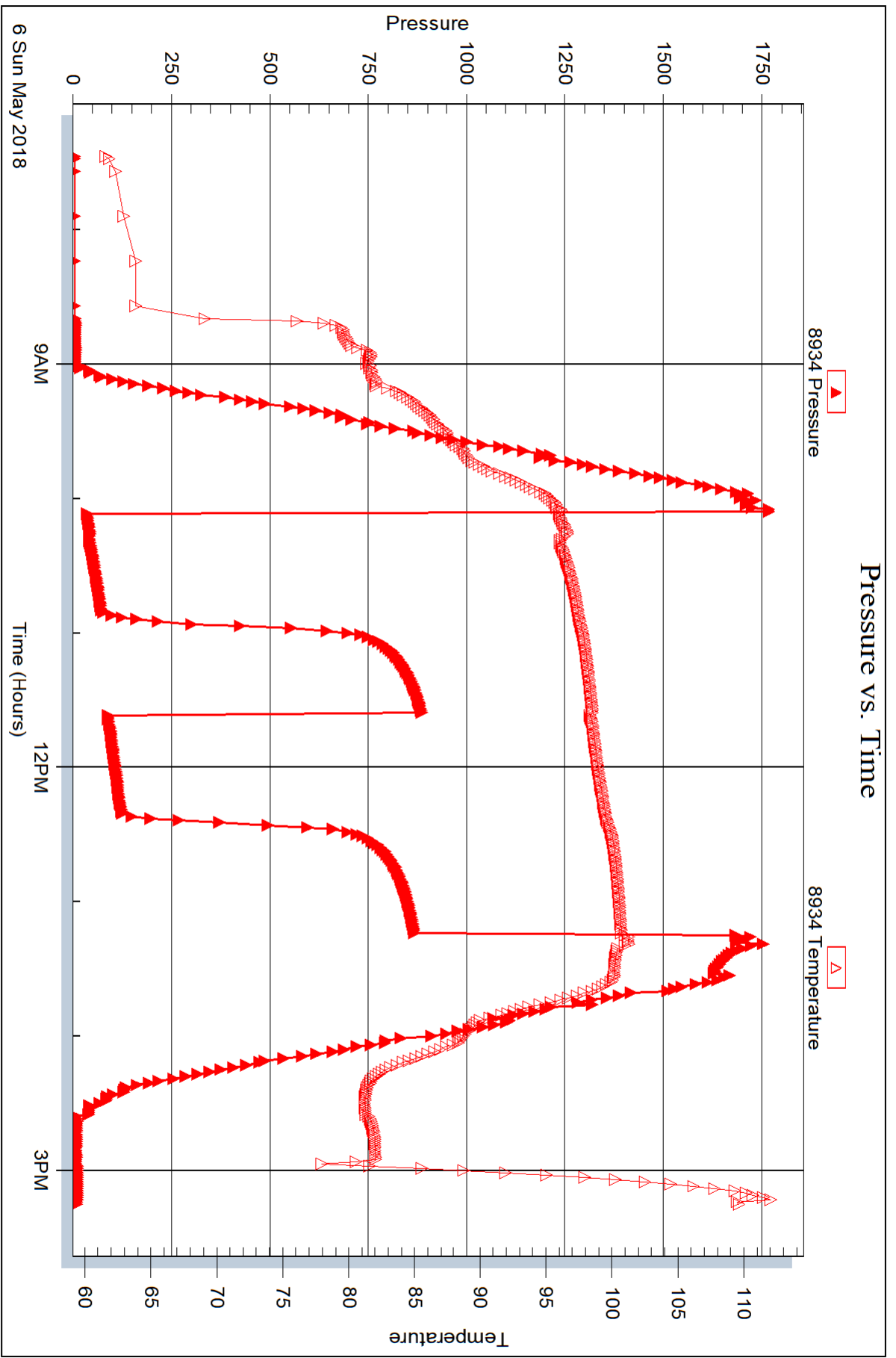
Serial #: 8934

Inside

Downing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

21-12S-17W Ellis,KS

Fidelis Schmeidler B #1

Start Date: 2018.05.06 @ 21:56:00

End Date: 2018.05.07 @ 03:42:15

Job Ticket #: 63902 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.05.08 @ 14:25:33

Downing Nelson Oil Co

Fidelis Schmeidler B #1

21-12S-17W Ellis,KS

DST # 4

LKC 'K'

2018.05.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co
 PO Box 1019
 Hays, KS 67601
 ATTN: Marc Downing

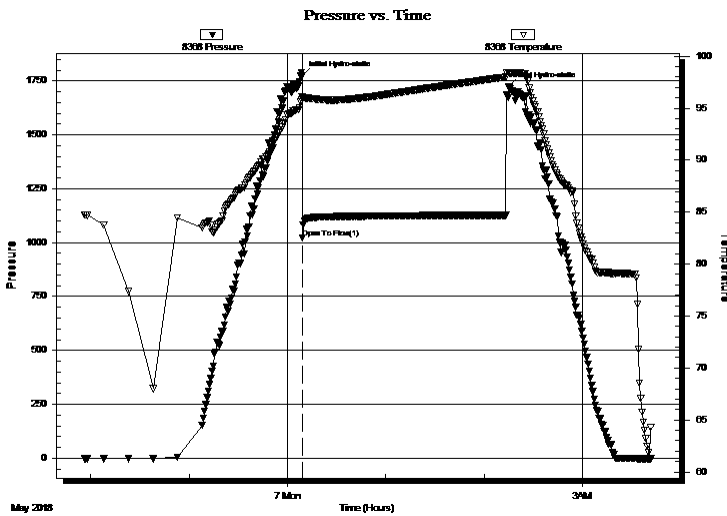
Fidelis Schmeidler B #1
21-12S-17W Ellis, KS
 Job Ticket: 63902 **DST#: 4**
 Test Start: 2018.05.06 @ 21:56:00

GENERAL INFORMATION:

Formation: **LKC 'K'**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:09:15
 Time Test Ended: 03:42:15
 Interval: **3569.00 ft (KB) To 3598.00 ft (KB) (TVD)**
 Total Depth: 3598.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J. Staab
 Unit No: 84
 Reference Elevations: 2133.00 ft (KB)
 2125.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8368 Inside
 Press@RunDepth: psig @ 3570.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2018.05.06 End Date: 2018.05.07 Last Calib.: 2018.05.07
 Start Time: 21:56:15 End Time: 03:42:15 Time On Btm: 2018.05.07 @ 00:09:00
 Time Off Btm: 2018.05.07 @ 02:15:00

TEST COMMENT: 30-IF-Tool slid 4' - Weak Blow ; Built to 1 1/2" - Tool Plugged Immediately
 30-ISI-No Return
 30-FF-Weak Surface Blow
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1773.99	96.14	Initial Hydro-static
1	1020.71	95.87	Open To Flow (1)
126	1724.80	98.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud w /Oil Specks	0.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis, KS

Job Ticket: 63902

DST#: 4

ATTN: Marc Downing

Test Start: 2018.05.06 @ 21:56:00

Tool Information

Drill Pipe:	Length: 3245.00 ft	Diameter: 3.80 inches	Volume: 45.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 47.81 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3569.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3550.00	
Shut In Tool	5.00			3555.00	
Hydraulic tool	5.00			3560.00	
Packer	5.00			3565.00	20.00 Bottom Of Top Packer
Packer	4.00			3569.00	
Stubb	1.00			3570.00	
Recorder	0.00	8368	Inside	3570.00	
Recorder	0.00	8934	Outside	3570.00	
Perforations	25.00			3595.00	
Bullnose	3.00			3598.00	29.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63902

DST#: 4

ATTN: Marc Downing

Test Start: 2018.05.06 @ 21:56:00

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: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 13000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud w /Oil Specks	0.037

Total Length: 5.00 ft Total Volume: 0.037 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Serial #: 8368

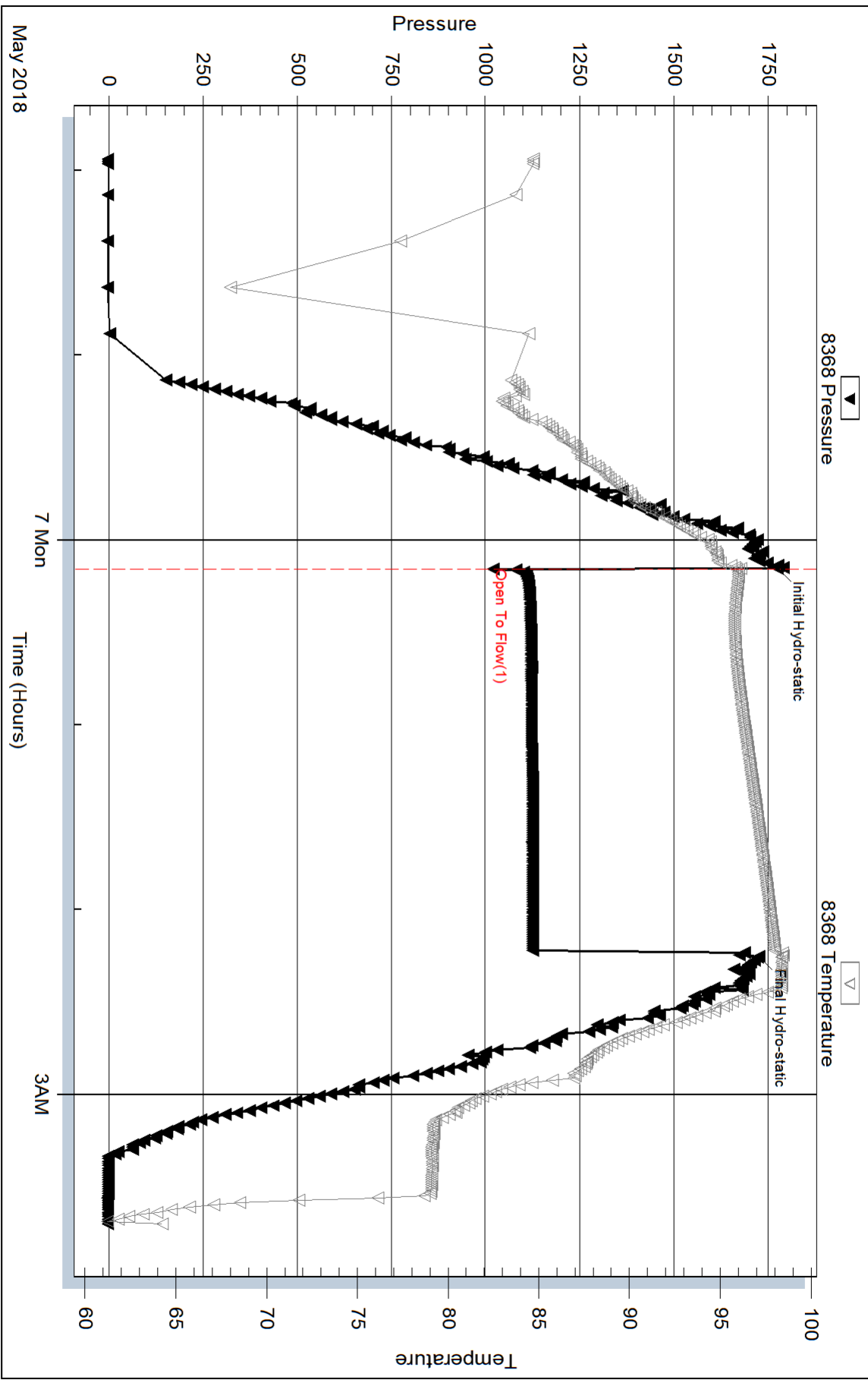
Inside

Downing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 4

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 63902

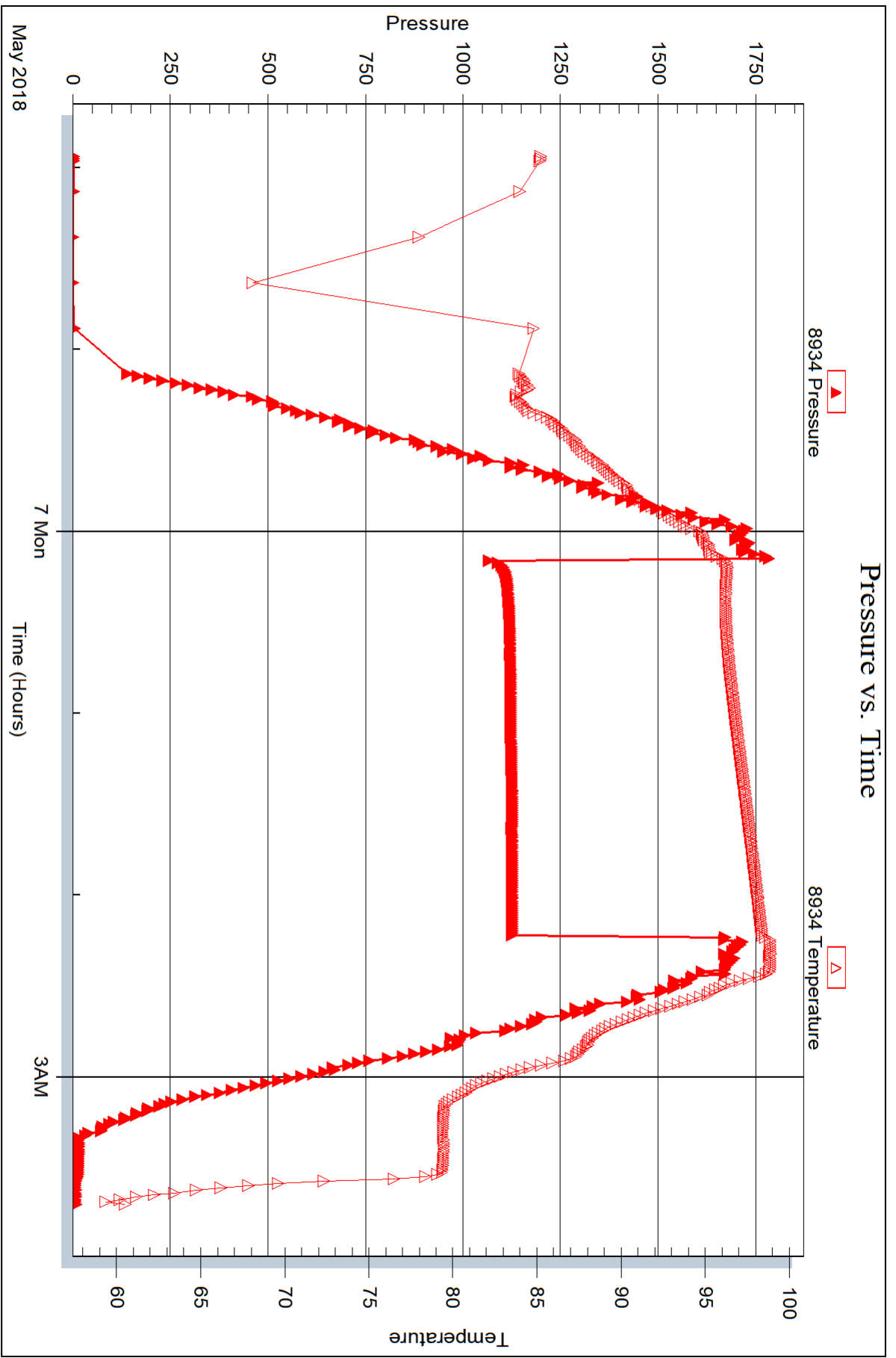
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Serial #: 8934

Outside Dow ning Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 63902

Printed: 2018.05.08 @ 14:25:34



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

21-12S-17W Ellis,KS

Fidelis Schmeidler B #1

Start Date: 2018.05.07 @ 13:57:00

End Date: 2018.05.07 @ 20:31:00

Job Ticket #: 63903 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2018.05.08 @ 14:25:12

Downing Nelson Oil Co

Fidelis Schmeidler B #1

21-12S-17W Ellis,KS

DST # 5

Arbuckle

2018.05.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

ATTN: Marc Downing

Job Ticket: 63903

DST#: 5

Test Start: 2018.05.07 @ 13:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:00

Time Test Ended: 20:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3612.00 ft (KB) To 3655.00 ft (KB) (TVD)

Reference Elevations: 2133.00 ft (KB)

Total Depth: 3655.00 ft (KB) (TVD)

2125.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8368

Inside

Press@RunDepth: 40.27 psig @ 3613.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.07 End Date: 2018.05.07

Last Calib.: 2018.05.07

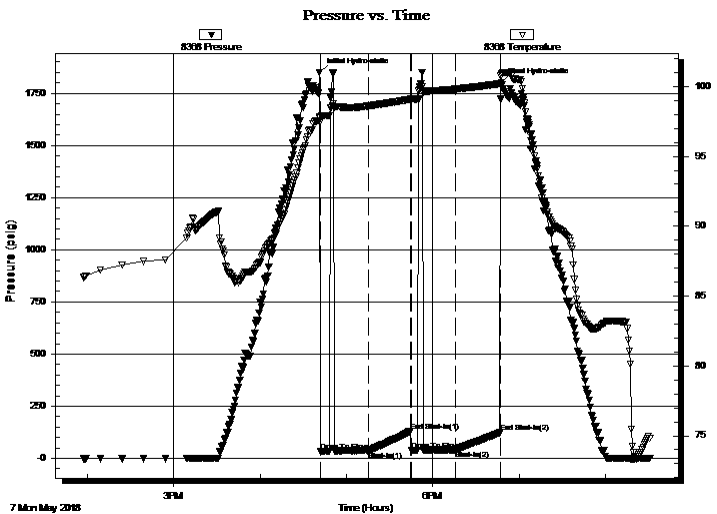
Start Time: 13:57:15 End Time: 20:31:00

Time On Btm: 2018.05.07 @ 16:41:30

Time Off Btm: 2018.05.07 @ 18:47:45

TEST COMMENT: 30-IF-Slid 8'; Surge died; Flushed tool; No help
30-ISI-No Return
30-FF-No Blow; Flushed tool; No Help
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.25	97.80	Initial Hydro-static
1	32.14	97.51	Open To Flow (1)
34	35.34	98.60	Shut-In(1)
63	129.49	99.09	End Shut-In(1)
64	36.73	99.09	Open To Flow (2)
94	40.27	99.80	Shut-In(2)
126	123.67	100.20	End Shut-In(2)
127	1802.18	100.80	Final Hydro-static

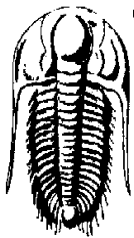
Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%M	0.33

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

ATTN: Marc Dow ning

Job Ticket: 63903

DST#: 5

Test Start: 2018.05.07 @ 13:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:00

Time Test Ended: 20:31:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3612.00 ft (KB) To 3655.00 ft (KB) (TVD)

Total Depth: 3655.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2133.00 ft (KB)

2125.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8934 Outside

Press@RunDepth: psig @ 3613.00 ft (KB)

Start Date: 2018.05.07 End Date: 2018.05.07

Start Time: 13:57:15 End Time: 20:31:00

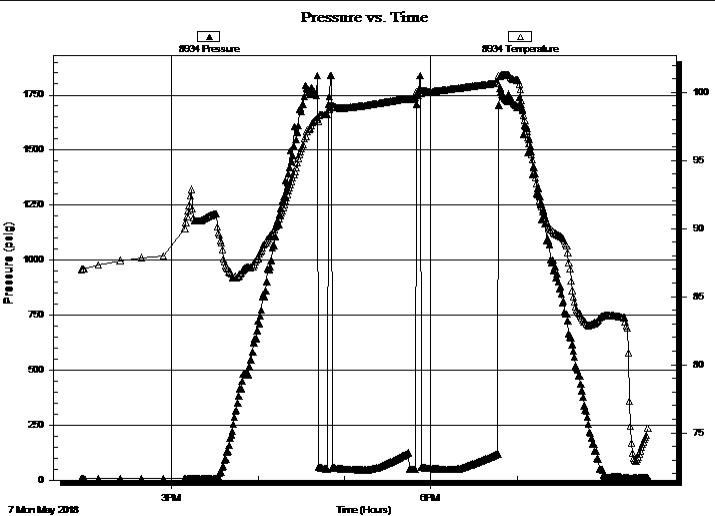
Capacity: 8000.00 psig

Last Calib.: 2018.05.07

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Slid 8'; Surge died; Flushed tool; No help
30-ISI-No Return
30-FF-No Blow; Flushed tool; No Help
30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
45.00	Mud 100%M	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

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis, KS

Job Ticket: 63903

DST#: 5

ATTN: Marc Downing

Test Start: 2018.05.07 @ 13:57:00

Tool Information

Drill Pipe:	Length: 3310.00 ft	Diameter: 3.80 inches	Volume: 46.43 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 312.00 ft	Diameter: 2.75 inches	Volume: 2.29 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: 82000.00 lb
			<u>Total Volume: 48.72 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3612.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3593.00	
Shut In Tool	5.00			3598.00	
Hydraulic tool	5.00			3603.00	
Packer	5.00			3608.00	20.00 Bottom Of Top Packer
Packer	4.00			3612.00	
Stubb	1.00			3613.00	
Recorder	0.00	8368	Inside	3613.00	
Recorder	0.00	8934	Outside	3613.00	
Perforations	39.00			3652.00	
Bullnose	3.00			3655.00	43.00 Bottom Packers & Anchor
Total Tool Length:	63.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

Fidelis Schmeidler B #1

PO Box 1019
Hays, KS 67601

21-12S-17W Ellis,KS

Job Ticket: 63903

DST#: 5

ATTN: Marc Downing

Test Start: 2018.05.07 @ 13:57:00

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 16000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	Mud 100%M	0.331

Total Length: 45.00 ft Total Volume: 0.331 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

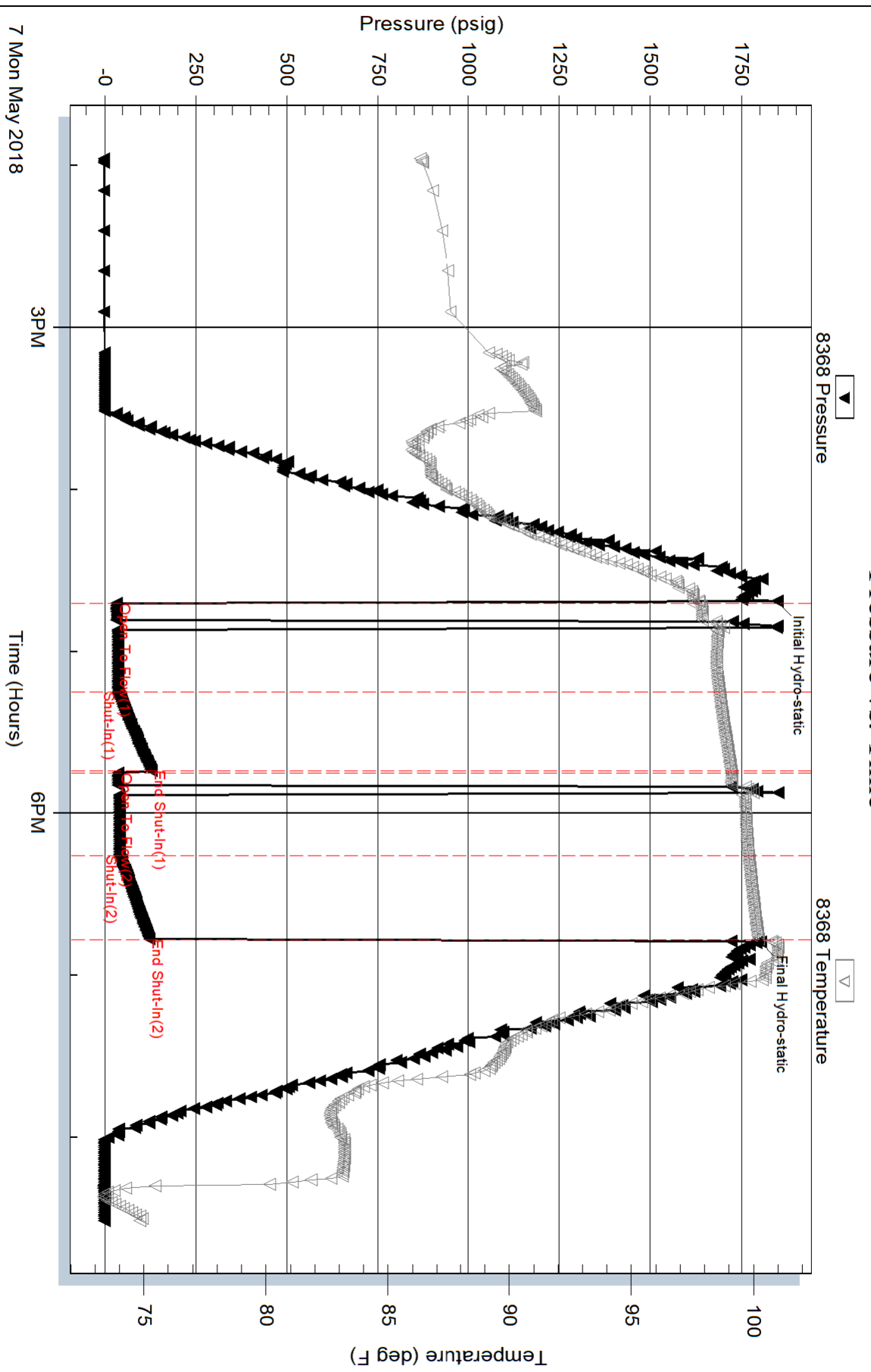
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2#LCM

Pressure vs. Time

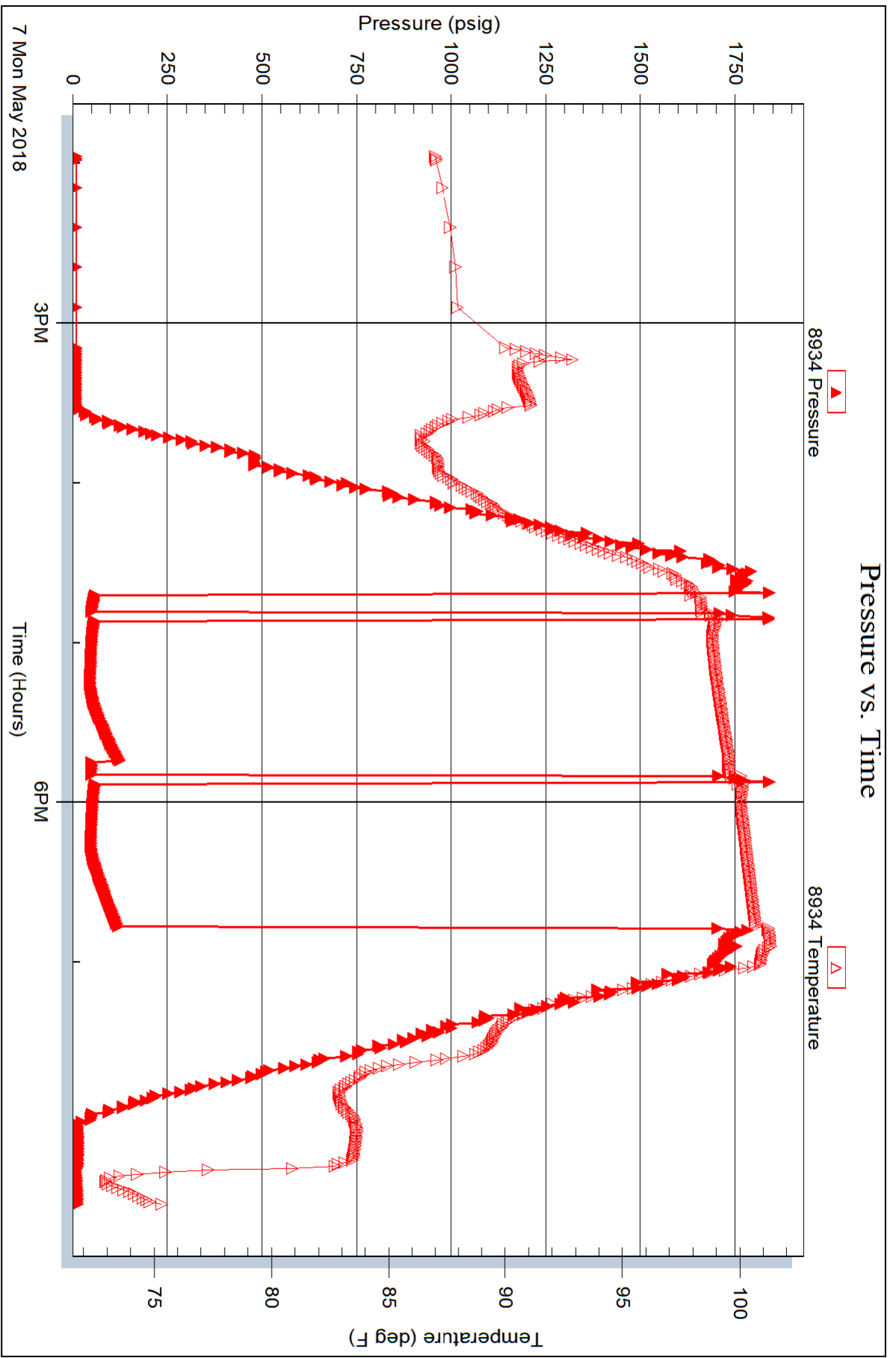


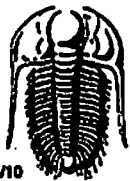
Serial #: 8934

Outside Dow n ing Nelson Oil Co

21-12S-17W Ellis, KS

DST Test Number: 5





TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63774

Well Name & No. Fidelis Schneider B#1 Test No. 1 Date 05/04/2018
 Company DNOC Elevation 2133 KB 2125 GL
 Address PO BOX 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 21 Twp 28 Rge. 17W Co. Ellis State Ks

Interval Tested 3418'-3440' Zone Tested LHC 'D'
 Anchor Length 22' Drill Pipe Run 3118' Mud Wt. 8.9
 Top Packer Depth 3413' Drill Collars Run - Vis 51
 Bottom Packer Depth 3418' Wt. Pipe Run 312' WL 9.2
 Total Depth 3440' Chlorides 13,000 ppm System LCM 2#

Blow Description 27- Weak Blow; Built to 3/4"
51- No Return
77- Weak Surface Blow
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>M.W</u>		<u>70</u>		<u>30</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

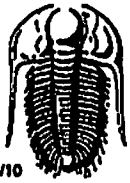
Rec Total 25' BHT 100° Gravity - API RW 228 @ 50 °F Chlorides 47,000 ppm

(A) Initial Hydrostatic 1693 Test 1050 T-On Location 22:01
 (B) First Initial Flow 24 Jars _____ T-Started 22:30
 (C) First Final Flow 27 Safety Joint _____ T-Open 01:43 05/04/2018
 (D) Initial Shut-In 795 Circ Sub _____ T-Pulled 03:43
 (E) Second Initial Flow 29 Hourly Standby _____ T-Out 05:27
 (F) Second Final Flow 32 Mileage 2627 Comments _____
 (G) Final Shut-In 711 Sampler _____
 (H) Final Hydrostatic 1654 Straddle _____
 Shale Packer _____
 Ruined Packer _____
 Ruined Shale Packer _____
 Extra Packer _____
 Extra Copies _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1076 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Approved By _____ Our Representative Francis J. Paul Thanks!

Triobite 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63775

Well Name & No. Fidelis Schneider B #1 Test No. 2 Date 05/05/2018
 Company BNOCD Elevation 2133 KB 2125 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 21 Twp 12s Rge. 17E Co. Ellis State Ks

Interval Tested 3437' - 3465' Zone Tested LKC 'E+7'
 Anchor Length 28' Drill Pipe Run 3117' Mud Wt. 9.0
 Top Packer Depth 3432' Drill Collars Run - Vis 46
 Bottom Packer Depth 3437' Wt. Pipe Run 312' WL 8.8
 Total Depth 3465' Chlorides 10,500 ppm System LCM 2#

Blow Description 27- Fair Blow; BOB in 20 mins
1st- Surface Blow; Built to 1/4"
77- Fair Blow; BOB in 19 mins
78- Surface Blow; Built to 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
<u>280'</u>	<u>15WC M.O</u>	<u>25</u>	<u>45</u>	<u>5</u>	<u>25</u>
<u>250'</u>	<u>JHP</u>	<u>100</u>			

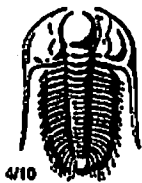
Rec Total 280' BHT 102° Gravity 35° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1701 Test 1050 T-On Location 12:35
 (B) First Initial Flow 30 Jars _____ T-Started 12:49
 (C) First Final Flow 83 Safety Joint _____ T-Open 15:00
 (D) Initial Shut-In 752 Circ Sub _____ T-Pulled 18:00
 (E) Second Initial Flow 97 Hourly Standby _____ T-Out 19:41
 (F) Second Final Flow 130 Mileage 26 RT 26
 (G) Final Shut-In 746 Sampler _____
 (H) Final Hydrostatic 1649 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Shale Packer _____ Ruined Packer _____
 Final Flow 45 Extra Packer _____ Extra Copies _____
 Final Shut-In 45 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1076
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1076

Approved By _____ Our Representative James J. Steel Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63901

Well Name & No. Fidelis Schmeidler B#1 Test No. 3 Date 05/06/2018
 Company DNOCD Elevation 2133 KB 2125 GL
 Address PO BOX 109 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 21 Twp 12s Rge. 17w Co. Ellis State Ks

Interval Tested 3494' - 3570' Zone Tested LHC 'H-J'
 Anchor Length 76' Drill Pipe Run 3183' Mud Wt. 9.3
 Top Packer Depth 3489' Drill Collars Run - Vis 40
 Bottom Packer Depth 3494' Wt. Pipe Run 312' WL 9.4
 Total Depth 3570' Chlorides 13000 ppm System LCM 2#

Blow Description 07 - Fair Blow: BOB in 25 mins

50' - Surface Blow

77 - Fair Blow: BOB in 22 mins

75' - Surface Blow: Built to 3/4"

Rec	Feet of	%gas	%oil	%water	%mud
120'	21MO	30	35	35	
120'	21MO	20	60	20	
	315' JHP	100			
		%gas	%oil	%water	%mud
		%gas	%oil	%water	%mud

Rec Total 240' BHT 100°F Gravity 33° API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1769 Test 1050 T-On Location 7:07
 (B) First Initial Flow 16 Jars _____ T-Started 7:27
 (C) First Final Flow 70 Safety Joint _____ T-Open 10:05
 (D) Initial Shut-In 884 Circ Sub _____ T-Pulled 13:05
 (E) Second Initial Flow 73 Hourly Standby _____ T-Out 15:15
 (F) Second Final Flow 120 Mileage 2627 26
 (G) Final Shut-In 865 Sampler _____
 (H) Final Hydrostatic 1748 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1076
 MP/DST Disc't _____

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

Sub Total 1076
 Approved By _____ Our Representative James J. Staal Thanks!
 Triobite Testing Inc. shall not be liable for damaged or 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63902

Well Name & No. Fidelis Schneider B#1 Test No. 4 Date 05/06/2008
 Company DNOC Elevation 2133 KB 2125 GL
 Address PO BOX 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 21 Twp 24 Rge. 17w Co. Ellis State Ks

Interval Tested 3569' - 3598' Zone Tested LHC 'H'
 Anchor Length 29' Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 3564' Drill Collars Run _____ Vis 40
 Bottom Packer Depth 3569' Wt. Pipe Run 312' WL 9.4
 Total Depth 3598 Chlorides 13,000 ppm System LCM 2H

Blow Description: 77- Weak Blow; Built to 1/2"
75D- No Return
77- Weak Surface Blow;
75D- No Return

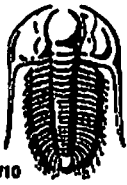
Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>Mud w/oil specks</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5' BHT 95 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1773 Test 850 T-On Location 21:36
 (B) First Initial Flow 1020 Jars _____ T-Started 21:56
 (C) First Final Flow _____ Safety Joint _____ T-Open 10:08
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 02:08
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 03:41
 (F) Second Final Flow _____ Mileage 2627 26 Comments slid 3-4ft
 (G) Final Shut-In _____ Sampler _____ plugged
 (H) Final Hydrostatic 1724 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 876
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 876

Approved By _____ Our Representative Spencer J. Peak Thanks!
 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.

785-259-0056



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63903

Well Name & No. Fidelis Schneider B#1 Test No. 5 Date 05/07/2018
 Company ANOCJ Elevation 2133 KB 2125 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 21 Twp 12S Rge. 17W Co. Ellis State KS

Interval Tested 3612' - 3655' Zone Tested Arbuckle
 Anchor Length 43' Drill Pipe Run 3310' Mud Wt. 9.2
 Top Packer Depth 3607' Drill Collars Run - Vis 49
 Bottom Packer Depth 3612' Wt. Pipe Run 312' WL 10.8
 Total Depth 3655' Chlorides 16,000 ppm System LCM 2H

Blow Description 77- Tool slid 8ft; Wash Blow; Built to 1/2"; flushed tool.
55- No Return
77- No Blow; Flushed; No help
75- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>45'</u>	<u>Mud w/oil specks</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45' BHT 100° Gravity - API RW - @ - °F Chlorides - ppm
 Test 1050 T-On Location 13:31
 Jars _____ T-Started 13:57
 Safety Joint _____ T-Open 16:43
 Circ Sub _____ T-Pulled 18:43
 Hourly Standby _____ T-Out 20:30
 Mileage 2627 ²⁶ Comments tool slid 8'
 Sampler _____ loaded tools
 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1076
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1076

Approved By _____ Our Representative Spencer J. Stahl Thanks!
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