



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

27-9s-24w Graham,KS

Robert Nickelson #1-27

Start Date: 2012.11.19 @ 09:20:00

End Date: 2012.11.19 @ 16:04:00

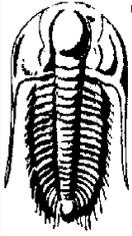
Job Ticket #: 51228 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.26 @ 13:06:49



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51228

DST#: 1

Test Start: 2012.11.19 @ 09:20:00

GENERAL INFORMATION:

Formation: **KC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:08:30

Time Test Ended: 16:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3935.00 ft (KB) To 3957.00 ft (KB) (TVD)

Reference Elevations: 2532.00 ft (KB)

Total Depth: 3957.00 ft (KB) (TVD)

2524.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 53.79 psig @ 3939.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.19

End Date: 2012.11.19

Last Calib.: 2012.11.19

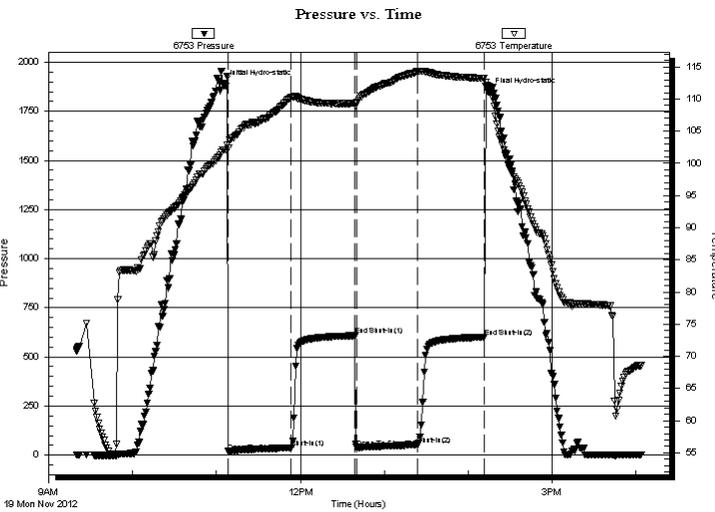
Start Time: 09:20:05

End Time: 16:03:59

Time On Btm: 2012.11.19 @ 11:04:30

Time Off Btm: 2012.11.19 @ 14:14:30

TEST COMMENT: IF-5 3/4" blow
ISI-No blow
FF-3 1/2" blow
FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.53	102.09	Initial Hydro-static
4	18.72	102.44	Open To Flow (1)
49	37.88	110.27	Shut-In(1)
95	607.93	109.33	End Shut-In(1)
96	39.36	109.35	Open To Flow (2)
140	53.79	114.30	Shut-In(2)
187	601.13	113.25	End Shut-In(2)
190	1846.79	111.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
78.00	Oil spotted WCM 30%W 70%M	0.82
2.00	SGO 5%G 95%O	0.03

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.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51228

DST#: 1

Test Start: 2012.11.19 @ 09:20:00

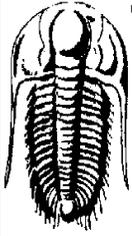
Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:</u>	Tool Chased	0.00 ft
				String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	5.00 ft			Final	45000.00 lb
Depth to Top Packer:	3935.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	22.00 ft				
Tool Length:	42.00 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			3916.00	
Shut In Tool	5.00			3921.00	
Hydraulic tool	5.00			3926.00	
Packer	4.00			3930.00	20.00 Bottom Of Top Packer
Packer	5.00			3935.00	
Stubb	1.00			3936.00	
Perforations	3.00			3939.00	
Recorder	0.00	8166	Inside	3939.00	
Recorder	0.00	6753	Outside	3939.00	
Perforations	15.00			3954.00	
Bullnose	3.00			3957.00	22.00 Bottom Packers & Anchor

Total Tool Length: 42.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

Job Ticket: 51228 **DST#: 1**

ATTN: Marc Dow ning

Test Start: 2012.11.19 @ 09:20:00

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:	88000 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
78.00	Oil spotted WCM 30%W 70%M	0.821
2.00	SGO 5%G 95%O	0.028

Total Length: 80.00 ft Total Volume: 0.849 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

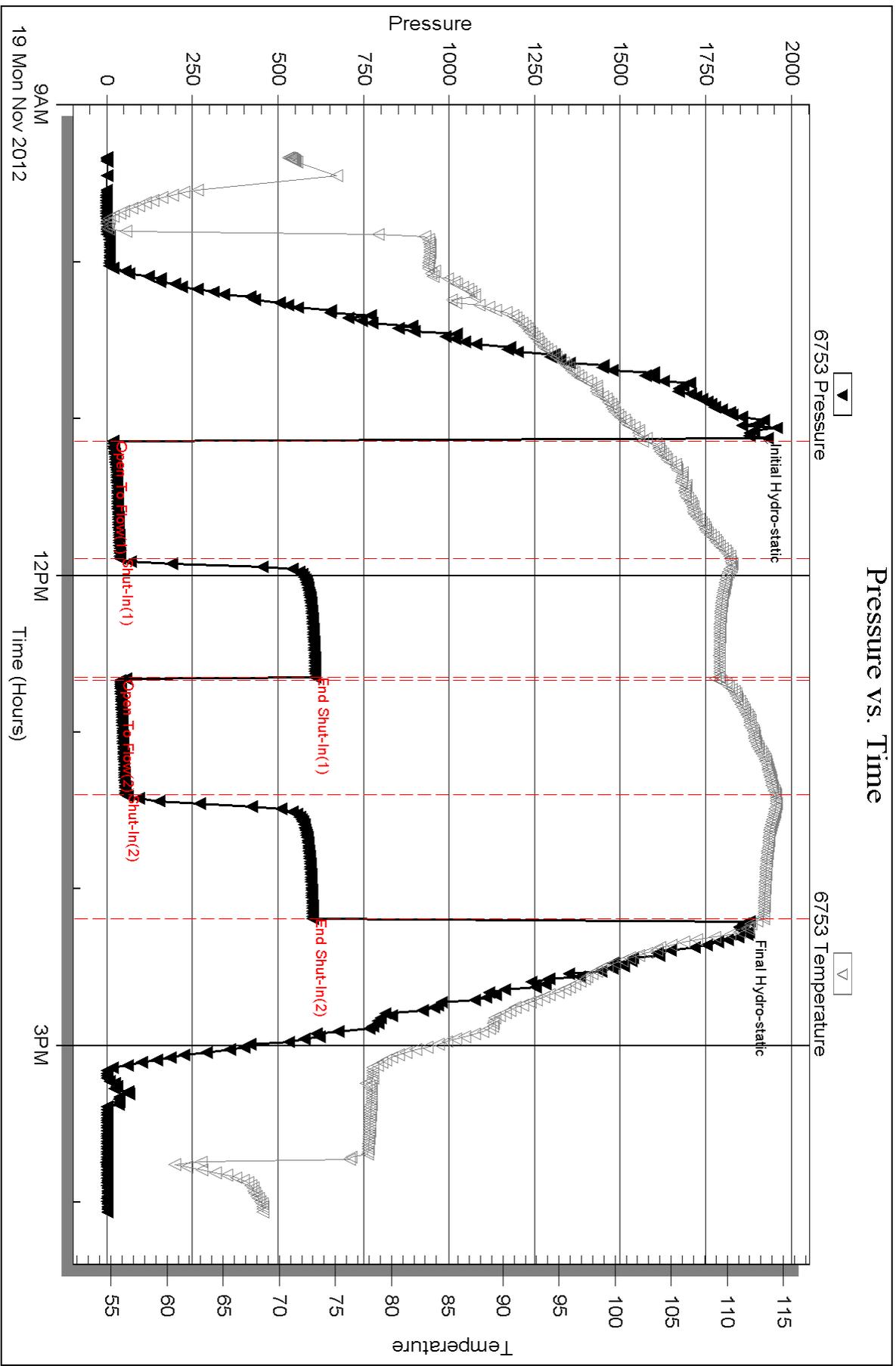
Recovery Comments:

Serial #: 6753

Outside Dow nting-Nelson Oil Co. Inc.

27-9s-24w Graham,KS

DST Test Number: 1



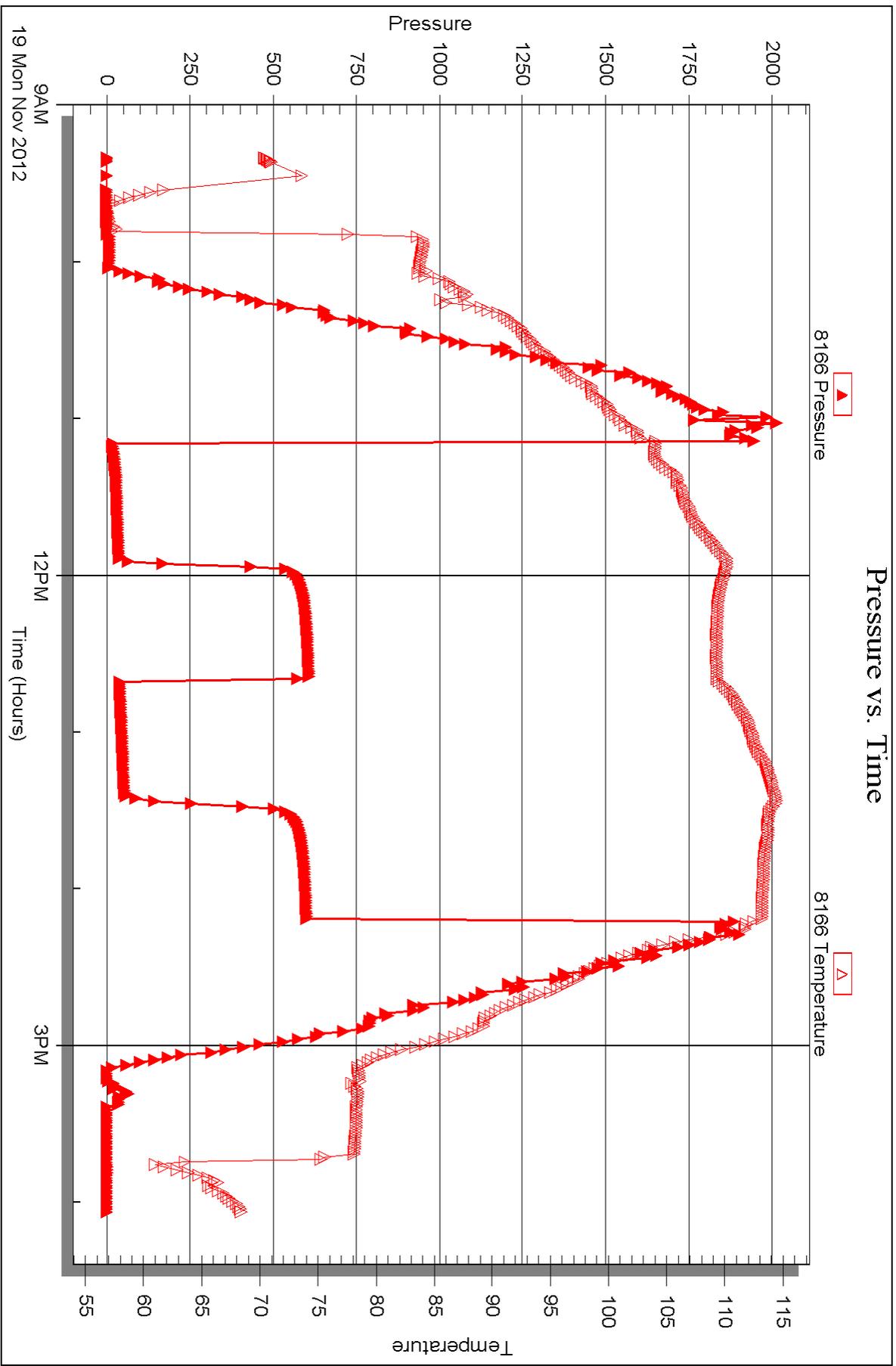
Serial #: 8166

Inside

Dow nting-Nelson Oil Co. Inc.

27-95-24w Graham,KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

27-9s-24w Graham,KS

Robert Nickelson #1-27

Start Date: 2012.11.20 @ 01:50:00

End Date: 2012.11.20 @ 07:01:30

Job Ticket #: 51229 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.26 @ 13:05:57



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51229

DST#: 2

Test Start: 2012.11.20 @ 01:50:00

GENERAL INFORMATION:

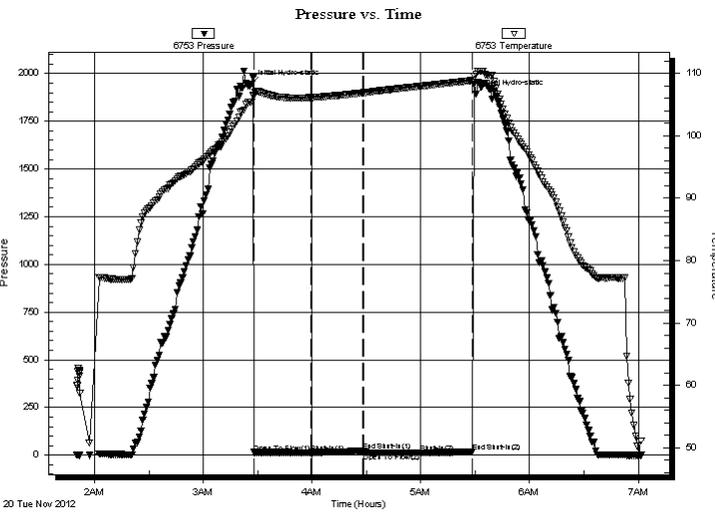
Formation: **KC "I"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:28:00
 Time Test Ended: 07:01:30
 Interval: **4017.00 ft (KB) To 4036.00 ft (KB) (TVD)**
 Total Depth: 4036.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2532.00 ft (KB)
 2524.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6753

Outside

Press @ Run Depth: 13.00 psig @ 4018.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.11.20 End Date: 2012.11.20 Last Calib.: 2012.11.20
 Start Time: 01:50:05 End Time: 07:01:29 Time On Btm: 2012.11.20 @ 03:26:30
 Time Off Btm: 2012.11.20 @ 05:30:30

TEST COMMENT: IF-1/2" blow
 IS-No blow
 FF-No blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1945.03	105.37	Initial Hydro-static
2	14.10	106.31	Open To Flow (1)
33	13.71	106.11	Shut-In(1)
62	20.69	106.87	End Shut-In(1)
62	14.21	106.89	Open To Flow (2)
94	13.00	107.95	Shut-In(2)
122	16.71	108.85	End Shut-In(2)
124	1892.90	109.85	Final Hydro-static

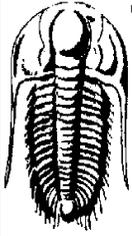
Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	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.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51229

DST#: 2

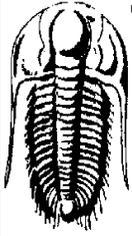
Test Start: 2012.11.20 @ 01:50:00

Tool Information

Drill Pipe:	Length: 3983.00 ft	Diameter: 3.80 inches	Volume: 55.87 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	4017.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	19.00 ft				
Tool Length:	39.00 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			3998.00	
Shut In Tool	5.00			4003.00	
Hydraulic tool	5.00			4008.00	
Packer	4.00			4012.00	20.00 Bottom Of Top Packer
Packer	5.00			4017.00	
Stubb	1.00			4018.00	
Recorder	0.00	8166	Inside	4018.00	
Recorder	0.00	6753	Outside	4018.00	
Perforations	15.00			4033.00	
Bullnose	3.00			4036.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

Job Ticket: 51229

DST#: 2

ATTN: Marc Dow ning

Test Start: 2012.11.20 @ 01:50:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

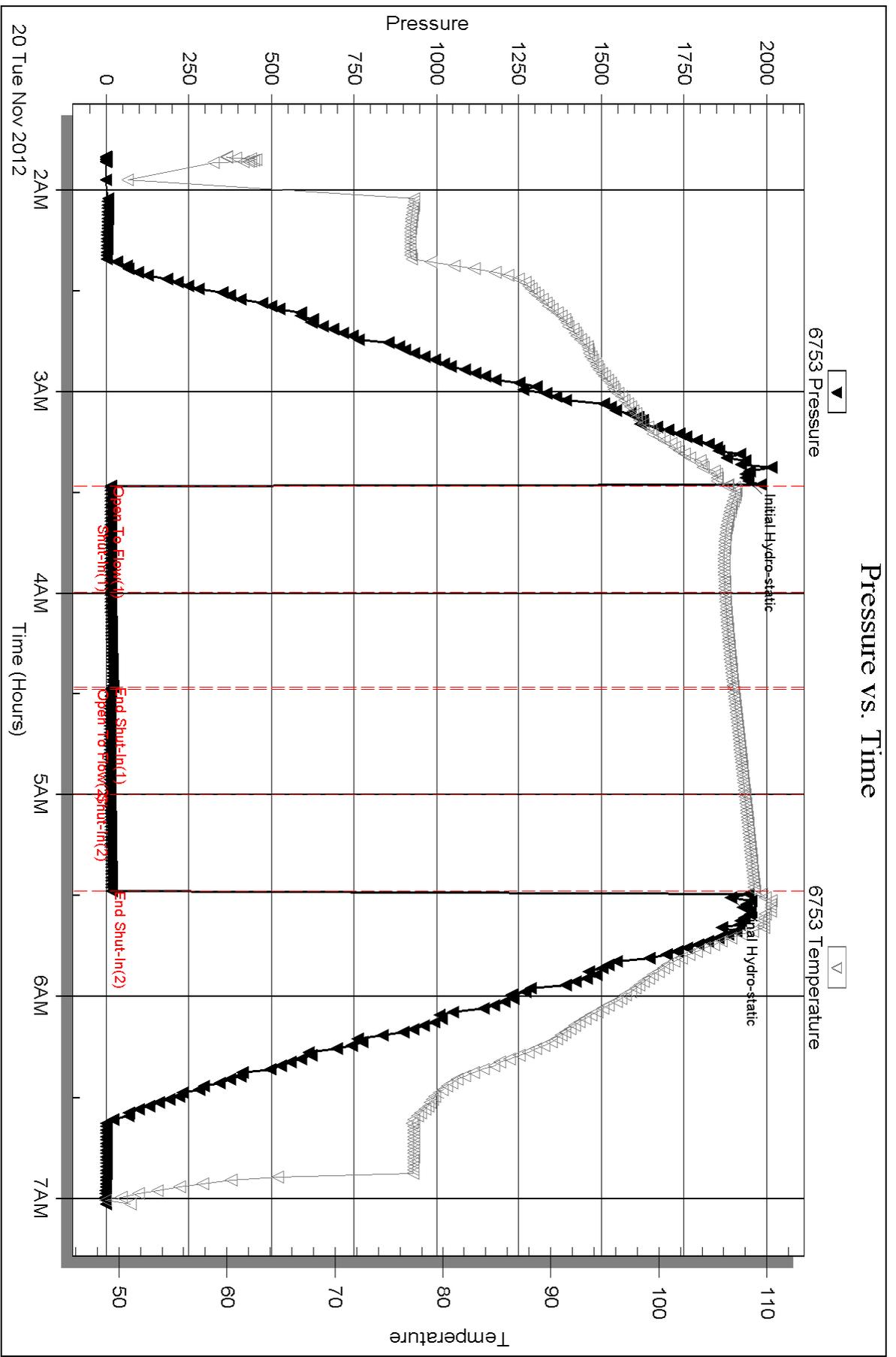
Recovery Comments:

Serial #: 6753

Outside Dow nting-Nelson Oil Co. Inc.

27-9s-24w Graham,KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51229

Printed: 2012.11.26 @ 13:06:01

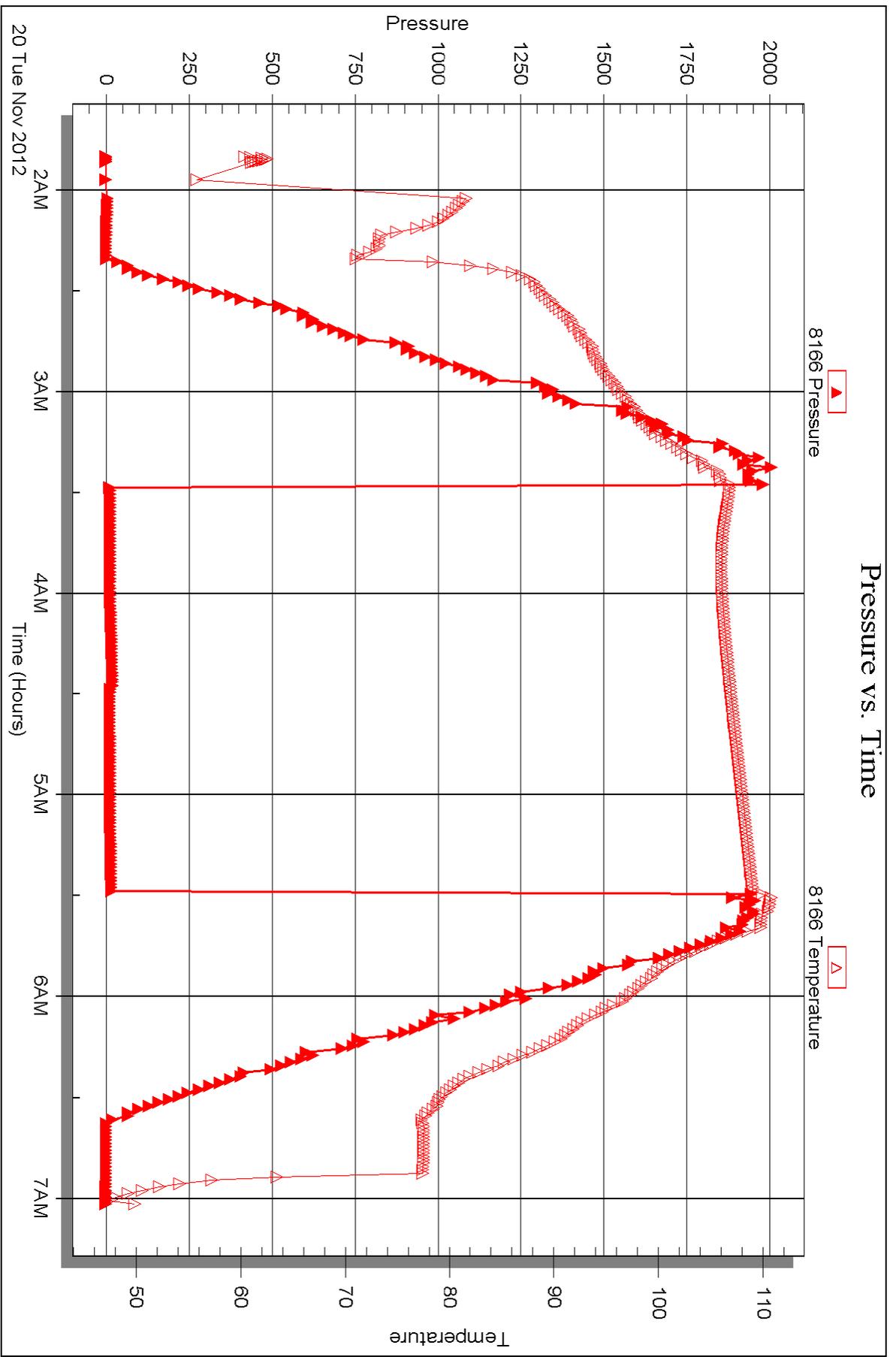
Serial #: 8166

Inside

Dow nting-Nelson Oil Co. Inc.

27-9s-24w Graham,KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

27-9s-24w Graham,KS

Robert Nickelson #1-27

Start Date: 2012.11.20 @ 14:35:00

End Date: 2012.11.20 @ 19:55:00

Job Ticket #: 51230 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.26 @ 13:05:03

Downing-Nelson Oil Co. Inc.

Robert Nickelson #1-27

27-9s-24w Graham,KS

DST # 3

KC "I-K"

2012.11.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51230

DST#: 3

Test Start: 2012.11.20 @ 14:35:00

GENERAL INFORMATION:

Formation: **KC" I-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:19:00

Time Test Ended: 19:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4016.00 ft (KB) To 4075.00 ft (KB) (TVD)

Reference Elevations: 2532.00 ft (KB)

Total Depth: 4075.00 ft (KB) (TVD)

2524.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753 Outside

Press @ Run Depth: 21.46 psig @ 4020.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.20

End Date: 2012.11.20

Last Calib.: 2012.11.20

Start Time: 14:35:05

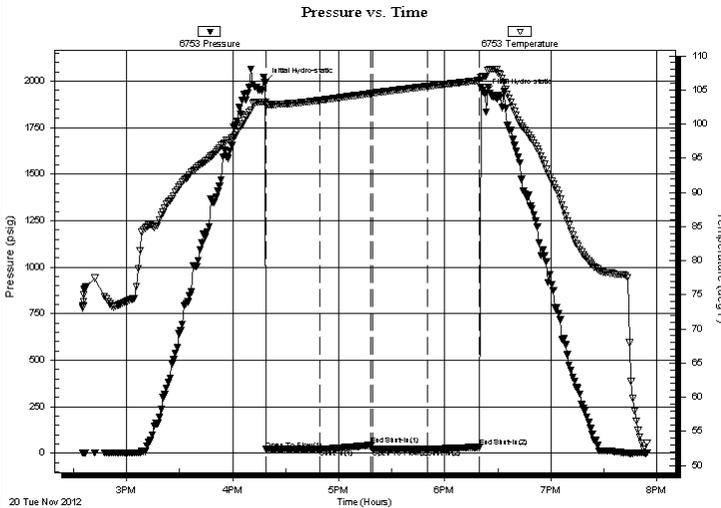
End Time: 19:54:59

Time On Btm: 2012.11.20 @ 16:18:00

Time Off Btm: 2012.11.20 @ 18:23:00

TEST COMMENT: IF-3/4" blow
ISI-No blow
FF-No blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1992.70	103.18	Initial Hydro-static
1	19.78	102.75	Open To Flow (1)
32	20.59	103.48	Shut-In(1)
60	42.79	104.46	End Shut-In(1)
61	21.72	104.50	Open To Flow (2)
92	21.46	105.51	Shut-In(2)
122	32.08	106.38	End Shut-In(2)
125	1933.16	107.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil spotted mud	0.02

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.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

ATTN: Marc Dow ning

Job Ticket: 51230

DST#: 3

Test Start: 2012.11.20 @ 14:35:00

Tool Information

Drill Pipe:	Length: 3981.00 ft	Diameter: 3.80 inches	Volume: 55.84 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:</u>	Tool Chased	0.00 ft
				String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	45000.00 lb
Depth to Top Packer:	4016.00 ft				
Depth to Bottom Packer:	ft				
Interval betw een Packers:	59.00 ft				
Tool Length:	79.00 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			3997.00	
Shut In Tool	5.00			4002.00	
Hydraulic tool	5.00			4007.00	
Packer	4.00			4011.00	20.00 Bottom Of Top Packer
Packer	5.00			4016.00	
Stubb	1.00			4017.00	
Perforations	3.00			4020.00	
Recorder	0.00	8166	Inside	4020.00	
Recorder	0.00	6753	Outside	4020.00	
Change Over Sub	1.00			4021.00	
Blank Spacing	31.00			4052.00	
Change Over Sub	1.00			4053.00	
Perforations	19.00			4072.00	
Bullnose	3.00			4075.00	59.00 Bottom Packers & Anchor

Total Tool Length: 79.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

Robert Nickelson #1-27

PO Box 1019
Hays KS 67601

27-9s-24w Graham,KS

Job Ticket: 51230

DST#: 3

ATTN: Marc Dow ning

Test Start: 2012.11.20 @ 14:35:00

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Oil spotted mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

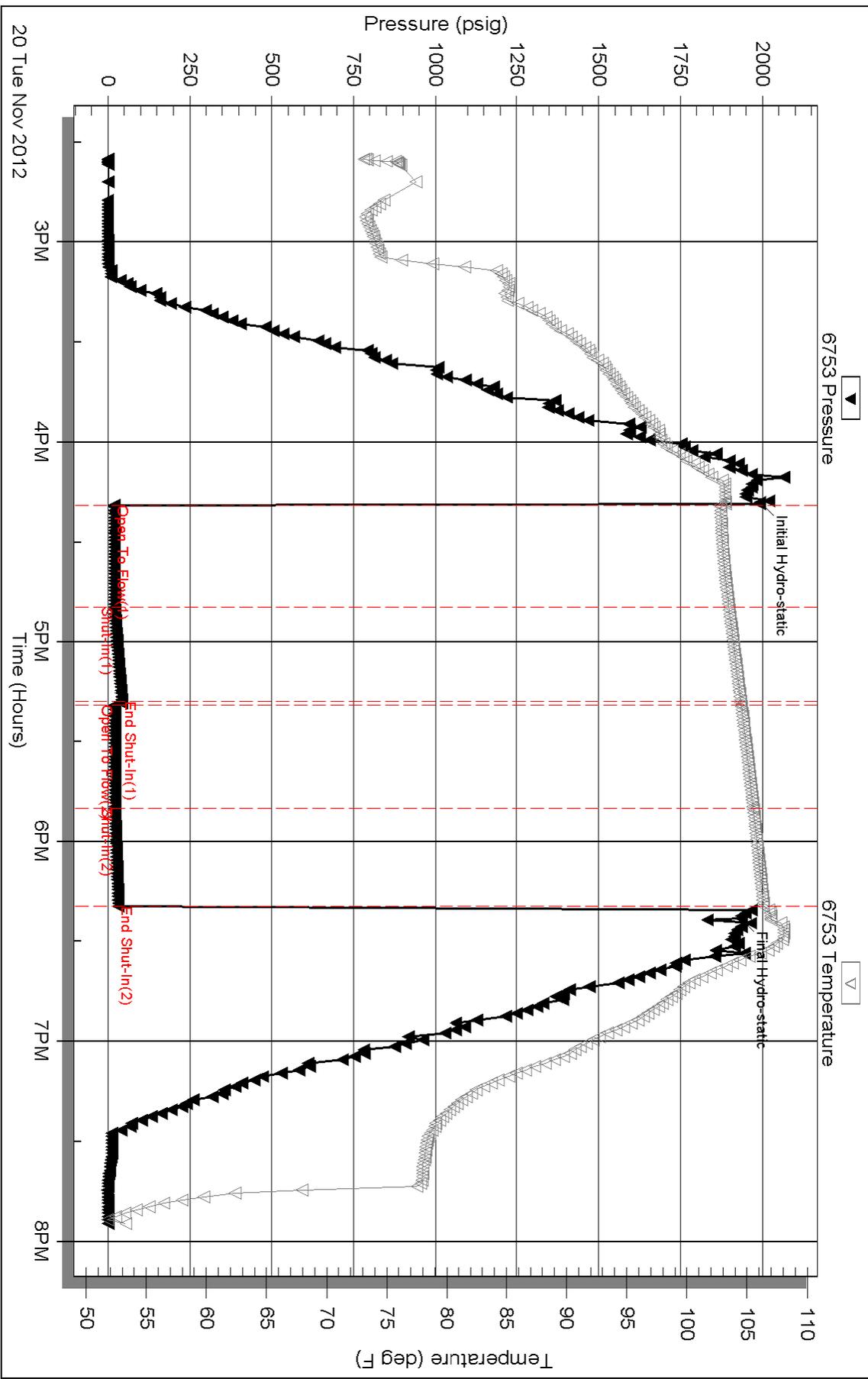
Serial #: 6753

Outside Dow nting-Nelson Oil Co. Inc.

27-9s-24w Graham,KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51230

Printed: 2012.11.26 @ 13:05:07

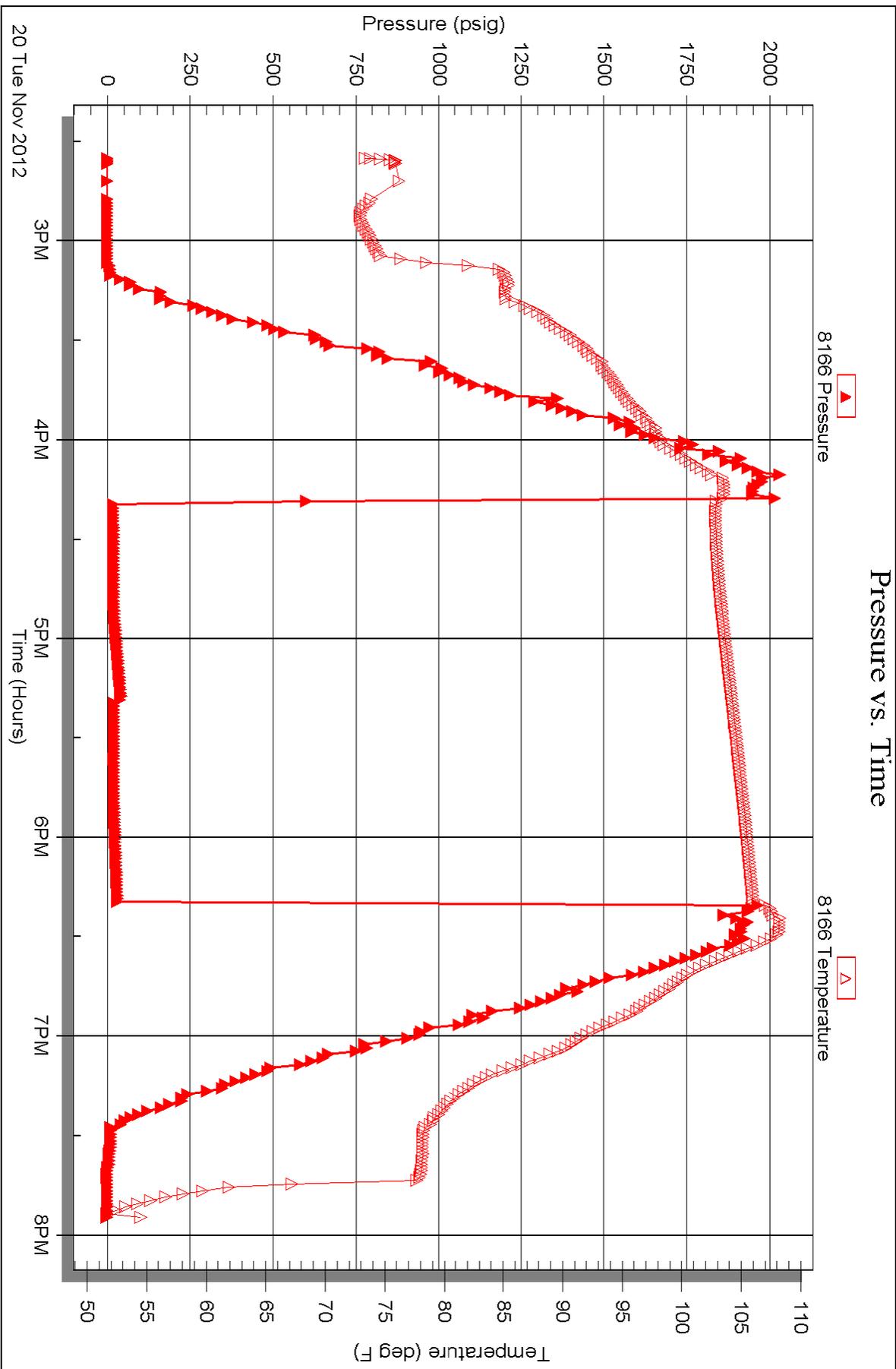
Serial #: 8166

Inside

Dow nung-Nelson Oil Co. Inc.

27-9s-24w Graham,KS

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51228

4/10

Well Name & No. Robert Nickelson "B" 1-27 Test No. 1 Date 11/19/12
 Company Downing-Nelson Oil Co Inc Elevation 2532 KB 2524 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #1
 Location: Sec. 27 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 3935-3957 Zone Tested KC" E, F"
 Anchor Length 22 Drill Pipe Run 3890 Mud Wt. 8.9
 Top Packer Depth 3930 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 3935 Wt. Pipe Run — WL 8.0
 Total Depth 3957 Chlorides 800 ppm System LCM 2
 Blow Description IF - 5 3/4 in blow
757 - No blow
FF - 3 1/2 in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>560</u>	<u>5</u>	<u>95</u>		
<u>28</u>	<u>oil spotted wcm</u>			<u>30</u>	<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 80 BHT 113 Gravity _____ API RW .09 @ 70 °F Chlorides 88,000 ppm
 (A) Initial Hydrostatic 1,891 Test 1150 T-On Location 8:40
 (B) First Initial Flow 19 Jars _____ T-Started 9:20
 (C) First Final Flow 38 Safety Joint _____ T-Open 11:10
 (D) Initial Shut-In 608 Circ Sub _____ T-Pulled 14:10
 (E) Second Initial Flow 39 Hourly Standby _____ T-Out 16:00
 (F) Second Final Flow 54 Mileage 112.7 173.60 Comments _____
 (G) Final Shut-In 601 Sampler _____
 (H) Final Hydrostatic 1,847 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Accessibility _____
 Sub Total 1323.60 Total 1323.60 MP/DST Disc't _____
 Sub Total 1323.60

Approved By _____ Our Representative Ben D...

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. 51229

Well Name & No. Robert Nickelson "B" 1-27 Test No. 2 Date 11/20/12
 Company Downing-Nelson Oil Co. Inc. Elevation 2532 KB 2524 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #1
 Location: Sec. 27 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 4017-4036 Zone Tested KC "I"
 Anchor Length 19 Drill Pipe Run 3983 Mud Wt. 8.9
 Top Packer Depth 4012 Drill Collars Run 30 Vis 60
 Bottom Packer Depth 4017 Wt. Pipe Run - WL 8.0
 Total Depth 4036 Chlorides 800 ppm System LCM 2

Blow Description IF - 1/2 in blow
IS - No blow
FF - No blow
FS - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</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 1 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic	<u>1945</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1:35</u>
(B) First Initial Flow	<u>14</u>	<input type="checkbox"/> Jars		T-Started	<u>1:50</u>
(C) First Final Flow	<u>14</u>	<input type="checkbox"/> Safety Joint		T-Open	<u>3:30</u>
(D) Initial Shut-In	<u>21</u>	<input type="checkbox"/> Circ Sub		T-Pulled	<u>5:30</u>
(E) Second Initial Flow	<u>14</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>7:05</u>
(F) Second Final Flow	<u>13</u>	<input checked="" type="checkbox"/> Mileage	<u>112.1</u> 173.60	Comments	
(G) Final Shut-In	<u>17</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>1,893</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

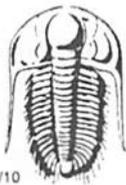
Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Sub Total 1423.60

MP/DST Disc't _____

Approved By _____ Our Representative [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. 51230

4/10

Well Name & No. Robert Nickelson "B" #1-27 Test No. 3 Date 11/20/12
 Company Downing-Nelson Oil Co Inc. Elevation 2532 KB 2524 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #1
 Location: Sec. 27 Twp. 9 Rge. 24 Co. Graham State KS

Interval Tested 4016-4075 Zone Tested L&C 2-K
 Anchor Length 59 Drill Pipe Run 3981 Mud Wt. 8.9
 Top Packer Depth 4011 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 4016 Wt. Pipe Run - WL 8.0
 Total Depth 4075 Chlorides 1000 ppm System LCM 1 1/2 #

Blow Description IF - 3/4 in blow
ISI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>oil spotted 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 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,993 Test 1250 T-On Location 14:30
 (B) First Initial Flow 20 Jars _____ T-Started 14:35
 (C) First Final Flow 21 Safety Joint _____ T-Open 16:15
 (D) Initial Shut-In 43 Circ Sub _____ T-Pulled 18:15
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 19:55
 (F) Second Final Flow 21 Mileage 112.7 173.60 Comments _____
 (G) Final Shut-In 32 Sampler _____
 (H) Final Hydrostatic 1,933 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 30 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 30 Day Standby _____ Total 1423.60
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1423.60

Approved By _____ Our Representative Beth Dine

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