



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.29 @ 07:40:00

End Date: 2012.10.29 @ 15:16:30

Job Ticket #: 50788 DST #: 1

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

Printed: 2012.11.02 @ 15:08:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

ATTN: Ron Nelson

Job Ticket: 50788

DST#: 1

Test Start: 2012.10.29 @ 07:40:00

GENERAL INFORMATION:

Formation: **KC"C,D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:38:30

Time Test Ended: 15:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3509.00 ft (KB) To 3555.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3555.00 ft (KB) (TVD)

2209.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ Run Depth: 486.35 psig @ 3510.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.29

End Date: 2012.10.29

Last Calib.: 2012.10.29

Start Time: 07:40:05

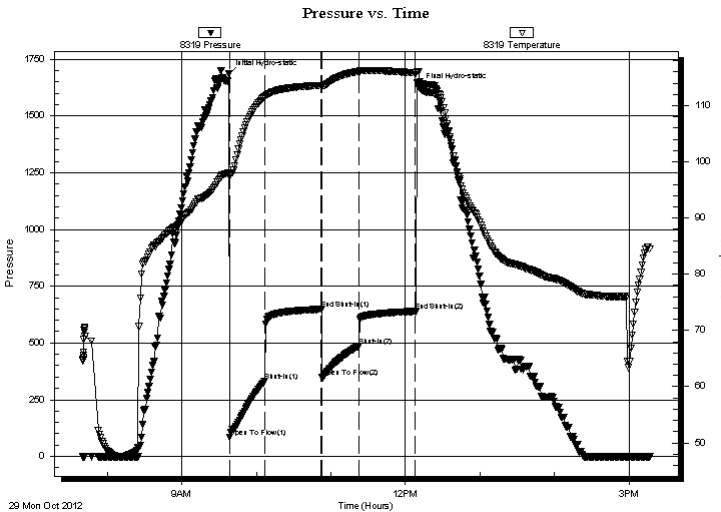
End Time: 15:16:29

Time On Btm: 2012.10.29 @ 09:37:30

Time Off Btm: 2012.10.29 @ 12:10:30

TEST COMMENT: IF-BOB in 3 min
ISI-8" blow
FF-BOB in 3.5 min
FSI-BOB in 9 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1684.52	98.01	Initial Hydro-static
1	86.04	97.75	Open To Flow (1)
29	330.81	111.57	Shut-In(1)
75	648.95	113.58	End Shut-In(1)
76	350.84	113.46	Open To Flow (2)
105	486.35	116.09	Shut-In(2)
151	639.60	115.80	End Shut-In(2)
153	1623.87	116.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
645.00	Water	8.77
60.00	SOMCW 15% O 20%M 65%W	0.84
125.00	GMOCW 15%G 20%M 25%O 40%W	1.75
125.00	GSMWCO 20%G 5%M 10%W 65%O	1.75
75.00	GSMWCO 30%G 30%W 5%M 35%O	1.05
0.00	1390ft GIP	0.00

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.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 50788

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.10.29 @ 07:40:00

Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 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:	85000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
			- bbl	String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	29.00 ft			Final	57000.00 lb
Depth to Top Packer:	3509.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	67.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3489.00	
Shut In Tool	5.00			3494.00	
Hydraulic tool	5.00			3499.00	
Packer	5.00			3504.00	21.00 Bottom Of Top Packer
Packer	5.00			3509.00	
Stubb	1.00			3510.00	
Recorder	0.00	8166	Inside	3510.00	
Recorder	0.00	8319	Outside	3510.00	
Perforations	8.00			3518.00	
Change Over Sub	1.00			3519.00	
Drill Pipe	32.00			3551.00	
Change Over Sub	1.00			3552.00	
Bullnose	3.00			3555.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 50788

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.10.29 @ 07:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity: 130000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
645.00	Water	8.774
60.00	SOMCW 15% O 20%M 65%W	0.842
125.00	GMOCW 15%G 20%M 25%O 40%W	1.753
125.00	GSMWCO 20%G 5%M 10%W 65%O	1.753
75.00	GSMWCO 30%G 30%W 5%M 35%O	1.052
0.00	1390ft GIP	0.000

Total Length: 1030.00 ft Total Volume: 14.174 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

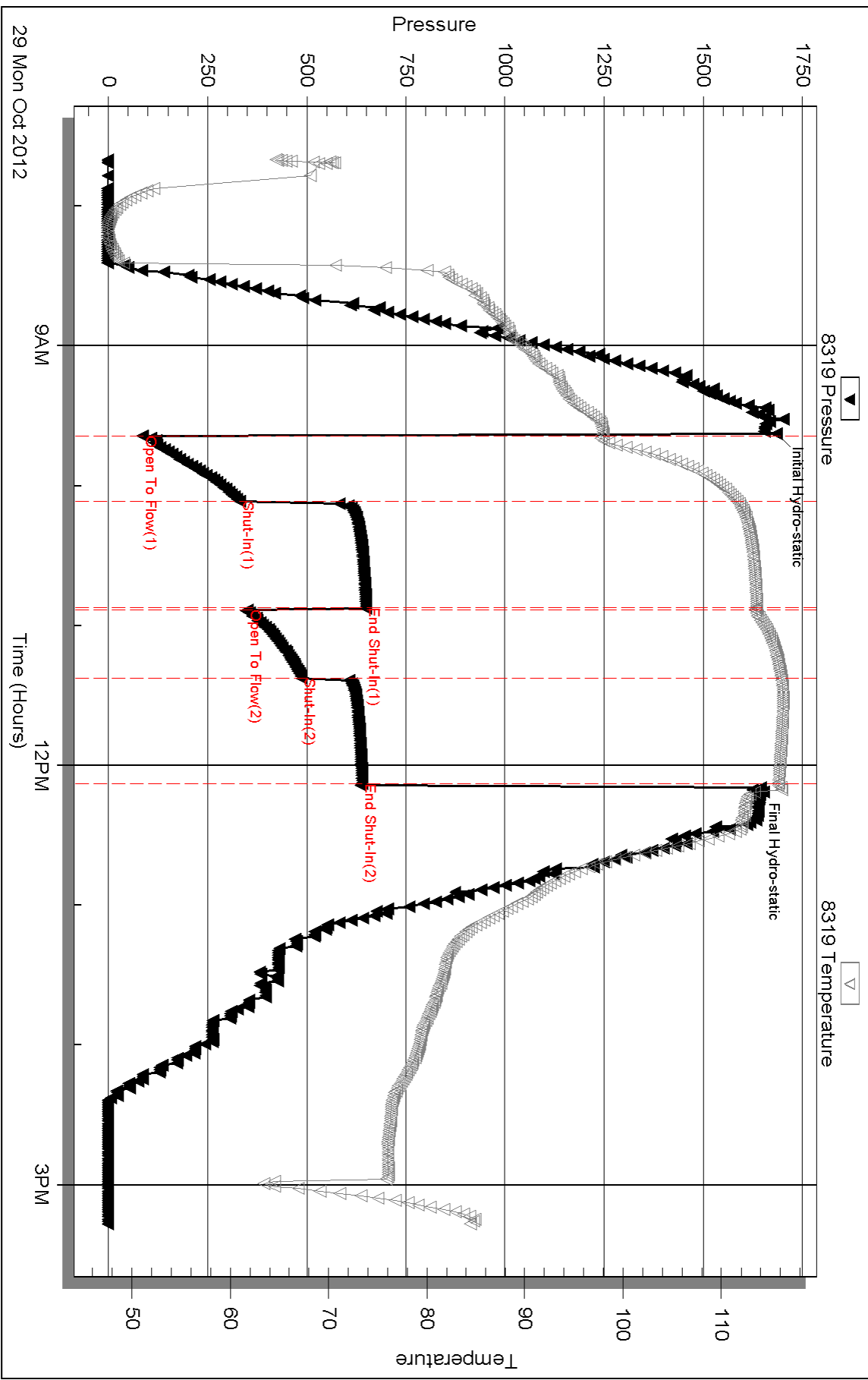
Serial #: 8319

Outside Dow nting-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 1

Pressure vs. Time



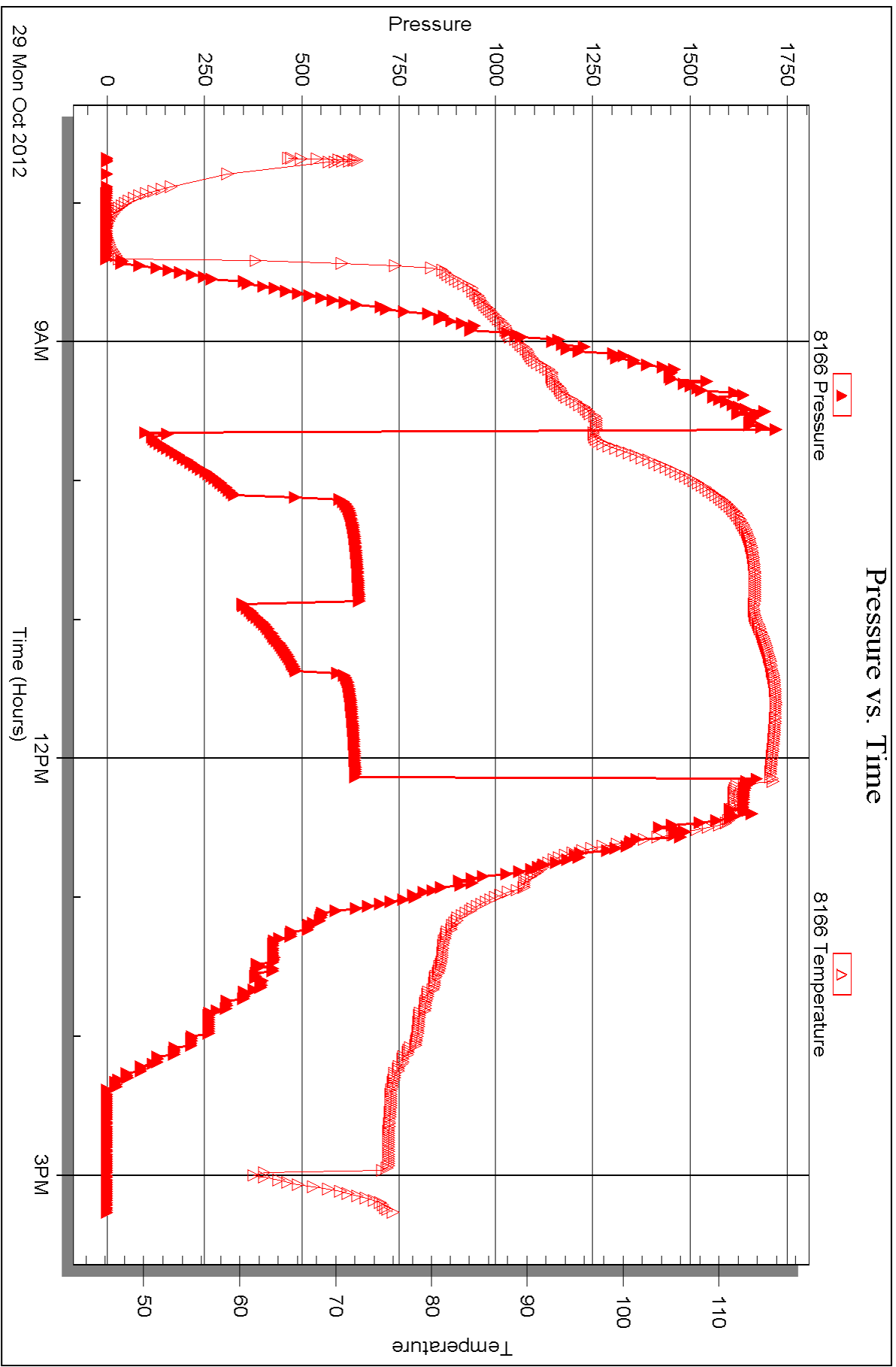
Serial #: 8166

Inside

Dow nings-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50788

Printed: 2012.11.02 @ 15:09:00



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.30 @ 03:45:00

End Date: 2012.10.30 @ 11:13:00

Job Ticket #: 50789 DST #: 2

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

Printed: 2012.11.02 @ 15:08:04



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

ATTN: Ron Nelson

Job Ticket: 50789 **DST#: 2**

Test Start: 2012.10.30 @ 03:45:00

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:19:30
 Time Test Ended: 11:13:00
 Interval: **3635.00 ft (KB) To 3680.00 ft (KB) (TVD)**
 Total Depth: 3680.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson/Wilb
 Unit No: 59
 Reference Elevations: 2217.00 ft (KB)
 2209.00 ft (CF)
 KB to GR/CF: 8.00 ft

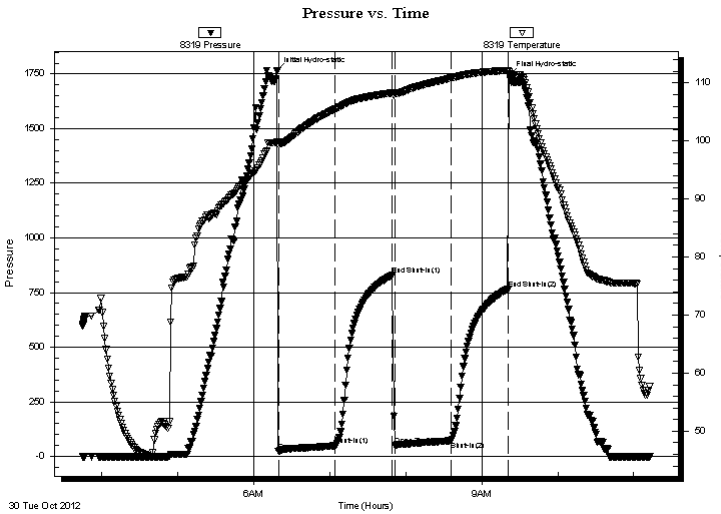
Serial #: 8319

Outside

Press @ RunDepth: 71.28 psig @ 3636.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.30 End Date: 2012.10.30 Last Calib.: 2012.10.30
 Start Time: 03:45:05 End Time: 11:12:59 Time On Btm: 2012.10.30 @ 06:18:30
 Time Off Btm: 2012.10.30 @ 09:21:30

TEST COMMENT: IF-BOB in 29 min
 ISI-Weak surface blow
 FF-BOB in 22 min
 FSI-Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.68	99.91	Initial Hydro-static
1	23.04	99.54	Open To Flow (1)
46	48.77	105.51	Shut-In(1)
91	829.71	108.28	End Shut-In(1)
93	49.86	108.13	Open To Flow (2)
137	71.28	110.82	Shut-In(2)
182	764.59	112.16	End Shut-In(2)
183	1742.05	111.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
64.00	GOWCM 15%G 30%O 20%W 35%M	0.62
64.00	MWGCO 15%g 60%O 20%W 35%M	0.90
310.00	Gas in pipe	4.35

* 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.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 50789

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.10.30 @ 03:45:00

Tool Information

Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	lb
			<u>Total Volume: 50.82 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3635.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.00 ft				
Tool Length:	66.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3615.00	
Shut In Tool	5.00			3620.00	
Hydraulic tool	5.00			3625.00	
Packer	5.00			3630.00	21.00 Bottom Of Top Packer
Packer	5.00			3635.00	
Stubb	1.00			3636.00	
Recorder	0.00	8166	Inside	3636.00	
Recorder	0.00	8319	Outside	3636.00	
Perforations	8.00			3644.00	
Change Over Sub	1.00			3645.00	
Drill Pipe	31.00			3676.00	
Change Over Sub	1.00			3677.00	
Bullnose	3.00			3680.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 50789

DST#: 2

ATTN: Ron Nelson

Test Start: 2012.10.30 @ 03:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
64.00	GOWCM 15%G 30%O 20%W 35%M	0.624
64.00	MWGCO 15%g 60%O 20%W 35%M	0.898
310.00	Gas in pipe	4.348

Total Length: 438.00 ft Total Volume: 5.870 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 64 DEG @ 34.6=35 Oil Gravity

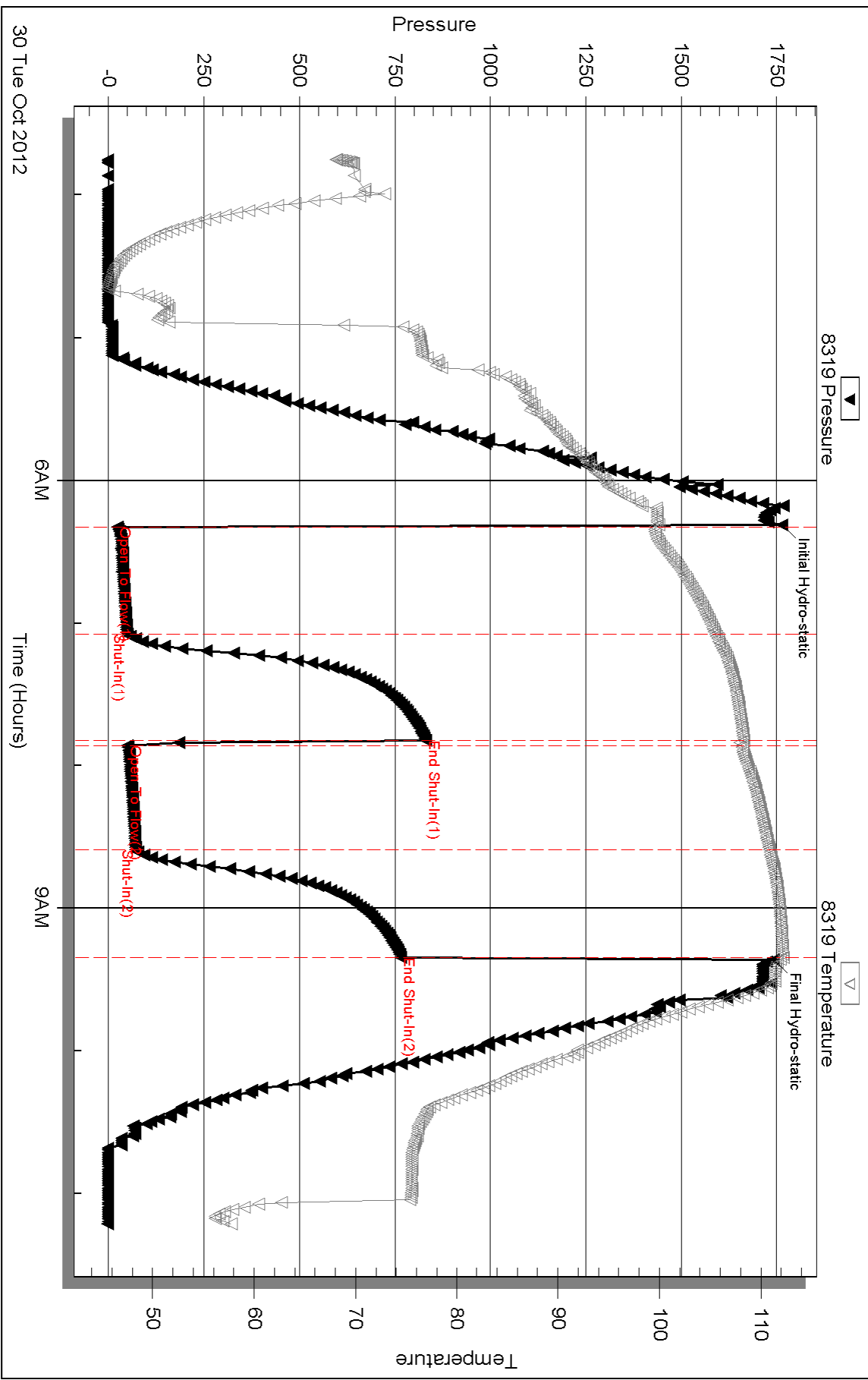
Serial #: 8319

Outside Dow nting-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50789

Printed: 2012.11.02 @ 15:08:09

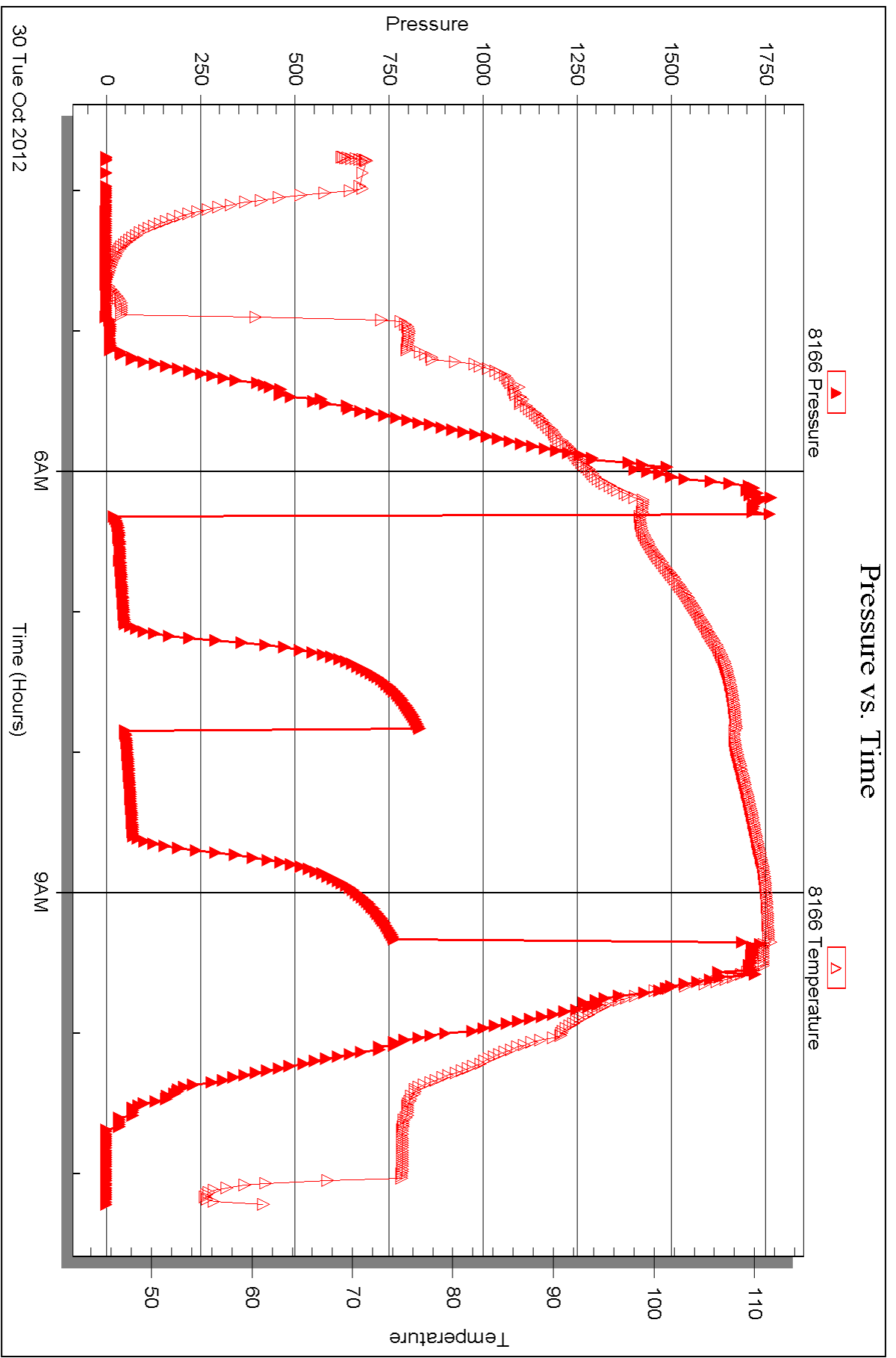
Serial #: 8166

Inside

Dow nung-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50789

Printed: 2012.11.02 @ 15:08:09



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Seitz-Barnhardt C #2

34-12s-21w Trego,KS

Start Date: 2012.10.31 @ 05:55:00

End Date: 2012.10.31 @ 13:52:30

Job Ticket #: 51083 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.02 @ 15:07:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

ATTN: Ron Nelson

Job Ticket: 51083

DST#: 3

Test Start: 2012.10.31 @ 05:55:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:16:00

Time Test Ended: 13:52:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Wilbur Steinbeck

Unit No: 59

Interval: 3816.00 ft (KB) To 3868.00 ft (KB) (TVD)

Reference Elevations: 2217.00 ft (KB)

Total Depth: 3868.00 ft (KB) (TVD)

2209.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8166

Inside

Press @ Run Depth: 416.10 psig @ 3817.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.31

End Date:

2012.10.31

Last Calib.: 2012.10.31

Start Time: 05:55:05

End Time:

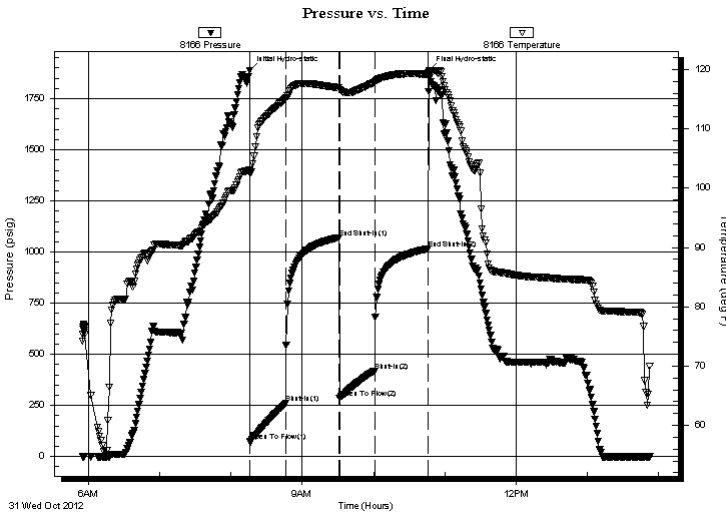
13:52:29

Time On Btm: 2012.10.31 @ 08:15:30

Time Off Btm: 2012.10.31 @ 10:47:00

TEST COMMENT: 30 IF; BOB in 3 min
45 IS; Built to 3 1/2" in 7 min then died off
30 FF; BOB in 3min
45 FS; Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.09	103.01	Initial Hydro-static
1	74.81	102.52	Open To Flow (1)
31	259.46	115.12	Shut-In(1)
75	1070.46	116.93	End Shut-In(1)
76	284.71	116.63	Open To Flow (2)
106	416.10	117.84	Shut-In(2)
151	1016.04	119.22	End Shut-In(2)
152	1888.34	119.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	WMGCO 50%O 20%G 20%M 10%W	1.49
756.00	Reversed out GO 90%O 10%G	10.60
126.00	GO	1.77
		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.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 51083

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.10.31 @ 05:55:00

Tool Information

Drill Pipe:	Length: 3769.00 ft	Diameter: 3.80 inches	Volume: 52.87 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 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:	62000.00 lb
			<u>Total Volume: 53.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3816.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.00 ft				
Tool Length:	73.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3796.00	
Shut In Tool	5.00			3801.00	
Hydraulic tool	5.00			3806.00	
Packer	5.00			3811.00	21.00 Bottom Of Top Packer
Packer	5.00			3816.00	
Stubb	1.00			3817.00	
Recorder	0.00	8166	Inside	3817.00	
Recorder	0.00	8319	Outside	3817.00	
Perforations	8.00			3825.00	
Change Over Sub	1.00			3826.00	
Drill Pipe	32.00			3858.00	
Change Over Sub	1.00			3859.00	
perforations	6.00			3865.00	
Bullnose	3.00			3868.00	52.00 Bottom Packers & Anchor

Total Tool Length: 73.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

34-12s-21w Trego,KS

PO Box 1019
Hays KS 67601

Seitz-Barnhardt C #2

Job Ticket: 51083

DST#: 3

ATTN: Ron Nelson

Test Start: 2012.10.31 @ 05:55:00

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: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
126.00	WMGCO 50%O 20%G 20%M 10%W	1.494
756.00	Reversed out GO 90%O 10%G	10.605
126.00	GO	1.767
		0.000

Total Length: 1008.00 ft

Total Volume: 13.866 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8166

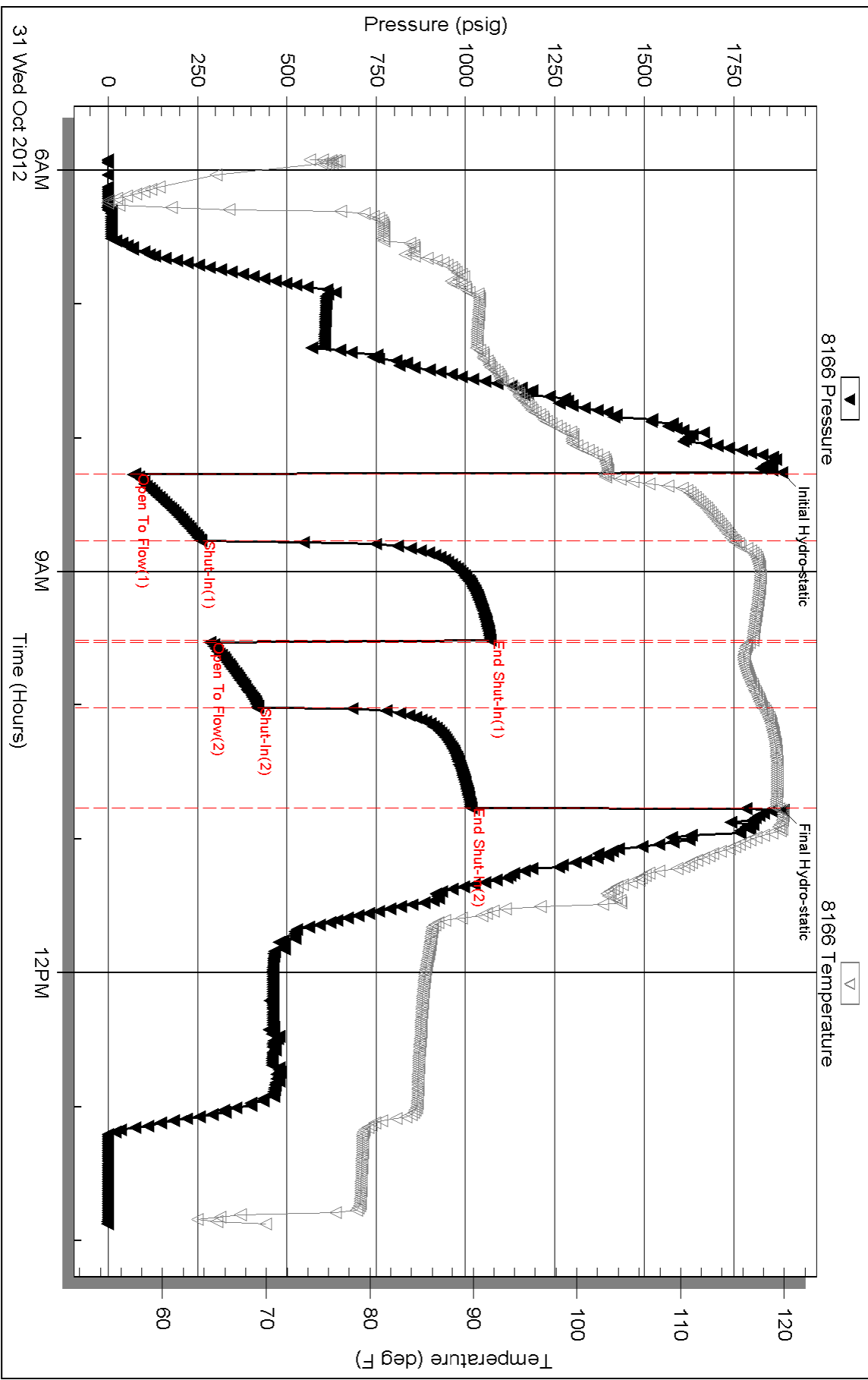
Inside

Dow nung-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 51083

Printed: 2012.11.02 @ 15:07:19

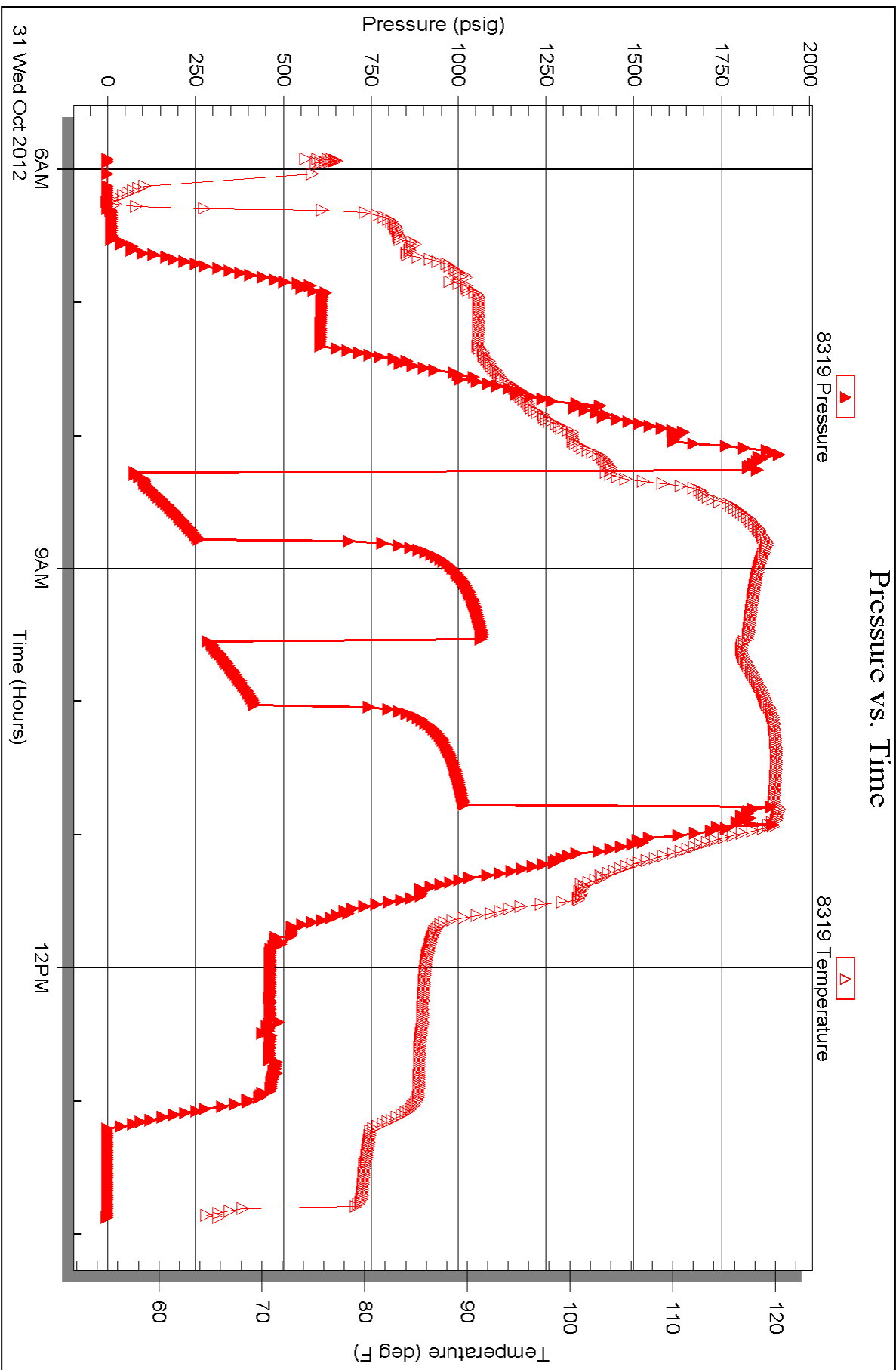
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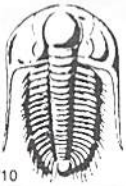
Outside

Dow nung-Nelson Oil Co Inc.

Seitz-Barnhardt C#2

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50788

4/10

Well Name & No. Seitz - Barnhardt "C" #2 Test No. 1 Date 10/29/12
 Company Downing-Nelson Oil Co Inc Elevation 2217 KB 2209 GL
 Address PO Box 1019 111 West 10th Street Hays KS 67601
 Co. Rep / Geo. Ken Nelson Rig Discovery #3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3509 - 3555 Zone Tested KC "C, D"
 Anchor Length 46 Drill Pipe Run 3487 Mud Wt. 8.5
 Top Packer Depth 3504 Drill Collars Run 30 Vis 51
 Bottom Packer Depth 3509 Wt. Pipe Run — WL 8.0
 Total Depth 3555 Chlorides 400 ppm System LCM 2 1/2
 Blow Description IF - BOB in 3min
ISI - 8 in blow
FF - BOB in 3 1/2 min
FSI - BOB in 9min

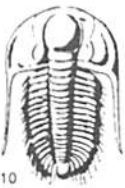
Rec	Feet of	%gas	%oil	%water	%mud
<u>645</u>	<u>water</u>				
<u>60</u>	<u>50 MCW</u>		<u>15</u>	<u>65</u>	<u>20</u>
<u>125</u>	<u>6 MOCW</u>	<u>15</u>	<u>25</u>	<u>40</u>	<u>20</u>
<u>125</u>	<u>6.5 MWCO</u>	<u>20</u>	<u>65</u>	<u>10</u>	<u>5</u>
<u>75</u>	<u>6.5 MWCO</u>	<u>30</u>	<u>35</u>	<u>30</u>	<u>5</u>

Rec Total 4030 BHT 1390 FT BTP Gravity — API RW .06 @ 76 °F Chlorides 130,000 ppm

(A) Initial Hydrostatic 4685 Test 1150 T-On Location 6:05
 (B) First Initial Flow 86 Jars — T-Started 7:40
 (C) First Final Flow 331 Safety Joint — T-Open 9:40
 (D) Initial Shut-In 649 Circ Sub — T-Pulled 12:10
 (E) Second Initial Flow 351 Hourly Standby — T-Out 15:15
 (F) Second Final Flow 486 Mileage 50-T 77.50
 (G) Final Shut-In 640 Sampler —
 (H) Final Hydrostatic 1,624 Straddle — Ruined Shale Packer —
 Shale Packer — Ruined Packer —
 Extra Packer — Extra Copies —
 Extra Recorder — Sub Total 0
 Day Standby — Total 1227.50
 Accessibility — MP/DST Disc't —
 Sub Total 1227.50

Approved By — Our Representative Burt G... [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. 50789

Well Name & No. Seitz-Barnhardt "C" #2 Test No. 2 Date 10/30/12
 Company Downing-Nelson Oil Co Inc. Elevation 2217 KB 2209 GL
 Address PO Box 1019 111 west 10th Street Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State KS

Interval Tested 3635-3680 Zone Tested KC
 Anchor Length 45 Drill Pipe Run 3612 Mud Wt. 8.7
 Top Packer Depth 3630 Drill Collars Run 30 Vis 55
 Bottom Packer Depth 3635 Wt. Pipe Run - WL 7.6
 Total Depth 3680 Chlorides 1500 ppm System LCM 2[#]

Blow Description IF-BOB in 29min
ISI-NO blow week surface blow
FF-BOB in 22min
FSI- week surface blow

Rec	Feet of	%gas	%oil	%water	%mud
64	MWGC0	15	60	10	30
64	MWGC0	15	30	20	35
310	Gas in PIPE				

Rec Total 438 BHT _____ Gravity 64^o@34.6=35^{Grav} API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1763 Test 1150 T-On Location 3:30
 (B) First Initial Flow 23 Jars _____ T-Started 3:45
 (C) First Final Flow 49 Safety Joint _____ T-Open 6:20
 (D) Initial Shut-In 830 Circ Sub _____ T-Pulled 9:20
 (E) Second Initial Flow 50 Hourly Standby _____ T-Out 11:15
 (F) Second Final Flow 71 Mileage 50 RT 77.50 Comments _____
 (G) Final Shut-In 765 Sampler _____
 (H) Final Hydrostatic 1742 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1227.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1227.50

Approved By _____ Our Representative Brett Dickerson 50/504

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51083

Well Name & No. Seitz - Bernhardt "C" #2 Test No. 3 Date 10-31-12
 Company Downing - Nelson Oil Co. Inc. Elevation 2217 KB 2209 GL
 Address PO Box 1019 111 West 10th St. Hays KS 67601
 Co. Rep / Geo. Ron Nelson Rig Discovery #3
 Location: Sec. 34 Twp. 12 Rge. 21 Co. Trego State Ks

Interval Tested 3816 3868 Zone Tested Arbuckle
 Anchor Length 52 Drill Pipe Run ~~3769~~ 3769 Mud Wt. 9.1
 Top Packer Depth 3811 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3816 Wt. Pipe Run - WL 8
 Total Depth 3868 Chlorides 2500 ppm System LCM 1/2

Blow Description IF; BOB 3min
FSF; Built to 3 1/2 in 7min then died off
FF; BOB 3min
FB1; Wack Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>60</u>	<u>40</u>	<u>60</u>		
<u>-</u>	<u>Reversed out 756 of 60</u>	<u>90</u>			
<u>-</u>	<u>Last two were GMCO</u>	<u>18</u>	<u>55</u>	<u>0</u>	<u>28</u>
<u>126</u>	<u>20</u>	<u>50</u>	<u>10</u>		<u>30</u>
<u>-</u>	<u>GIP 315'</u>				

Rec Total 1008 BHT Gravity 72.0 @ 38.6 = 37.4 API RW @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1886 Test 1150 T-On Location 4:45
 (B) First Initial Flow 75 Jars - T-Started 5:55
 (C) First Final Flow 259 Safety Joint - T-Open 8:20
 (D) Initial Shut-In 1070 Circ Sub Propped Bar 50 T-Pulled 10:50
 (E) Second Initial Flow 285 Hourly Standby - T-Out 14:00
 (F) Second Final Flow 416 Mileage 50 RT 77.50 Comments Drop Bar +
 (G) Final Shut-In 1016 Sampler - Reversed fluid out
 (H) Final Hydrostatic 1888 Straddle - Ruined Shale Packer -

Initial Open 30 Ruined Packer 320
 Initial Shut-In 45 Extra Copies -
 Final Flow 30 Sub Total 320
 Final Shut-In 45 Total 1597.50
 Sub Total 1277.50 MP/DST Disc't -

Approved By _____ Our Representative [Signature]

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