



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Seitz-Barrhardt #C-4

34-12S-21W Trego,KS

Start Date: 2014.06.25 @ 03:48:09

End Date: 2014.06.25 @ 12:04:39

Job Ticket #: 59429 DST #: 1

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

Printed: 2014.06.27 @ 10:35:05



**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-Barrhardt #C-4

Job Ticket: 59429

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.25 @ 03:48:09

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:11:09

Time Test Ended: 12:04:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 48

Interval: 3792.00 ft (KB) To 3847.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3847.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press@RunDepth: 44.44 psig @ 3811.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.25 End Date: 2014.06.25

Last Calib.: 2014.06.25

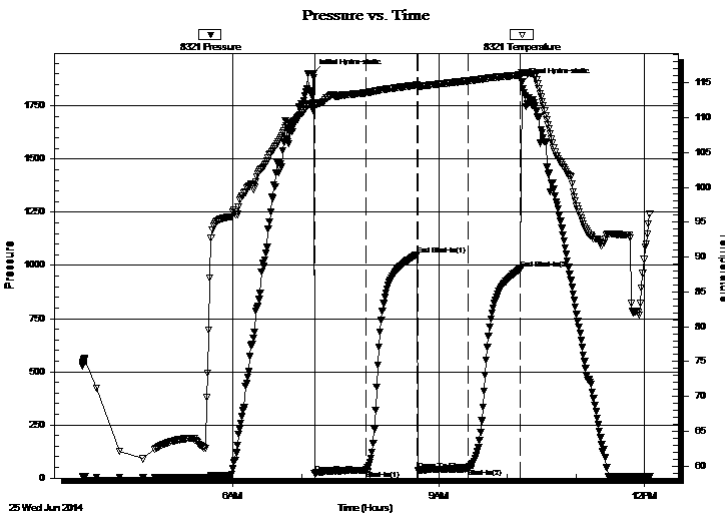
Start Time: 03:48:10 End Time: 12:04:39

Time On Btm: 2014.06.25 @ 07:10:09

Time Off Btm: 2014.06.25 @ 10:12:39

TEST COMMENT: 45- IF- Slow ly built to 3"
45- IS- No blow
45- FF- Slow ly built to 2"
45- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1903.44	112.07	Initial Hydro-static
1	22.63	111.65	Open To Flow (1)
46	37.18	113.53	Shut-In(1)
91	1049.67	114.64	End Shut-In(1)
92	38.27	114.42	Open To Flow (2)
136	44.44	115.27	Shut-In(2)
182	984.20	116.10	End Shut-In(2)
183	1861.55	116.40	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	MCO, 40%M 60%O	0.28
25.00	CO	0.34

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-Barrhardt #C-4

Job Ticket: 59429

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.25 @ 03:48:09

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.75 inches	Volume: 51.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3792.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	55.00 ft			
Tool Length:	75.00 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			3773.00	
Shut In Tool	5.00			3778.00	
Hydraulic tool	5.00			3783.00	
Packer	5.00			3788.00	20.00 Bottom Of Top Packer
Packer	4.00			3792.00	
Stubb	1.00			3793.00	
Perforations	18.00			3811.00	
Recorder	0.00	8372	Inside	3811.00	
Recorder	0.00	8321	Outside	3811.00	
Change Over Sub	1.00			3812.00	
Drill Pipe	31.00			3843.00	
Change Over Sub	1.00			3844.00	
Bullnose	3.00			3847.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**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-Barrhardt #C-4

Job Ticket: 59429

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.25 @ 03:48:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	MCO, 40%M 60%O	0.275
25.00	CO	0.342

Total Length: 65.00 ft

Total Volume: 0.617 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

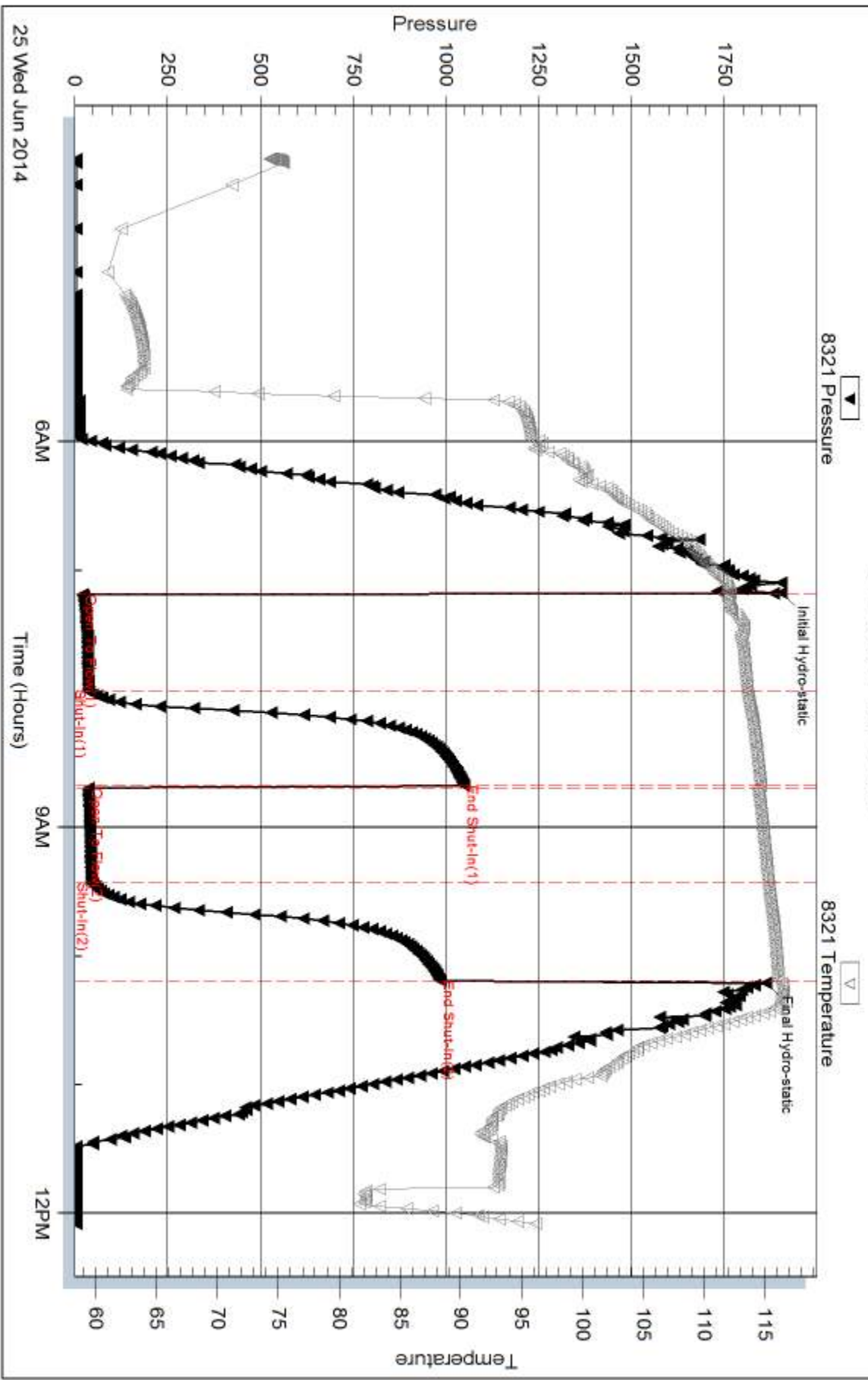
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



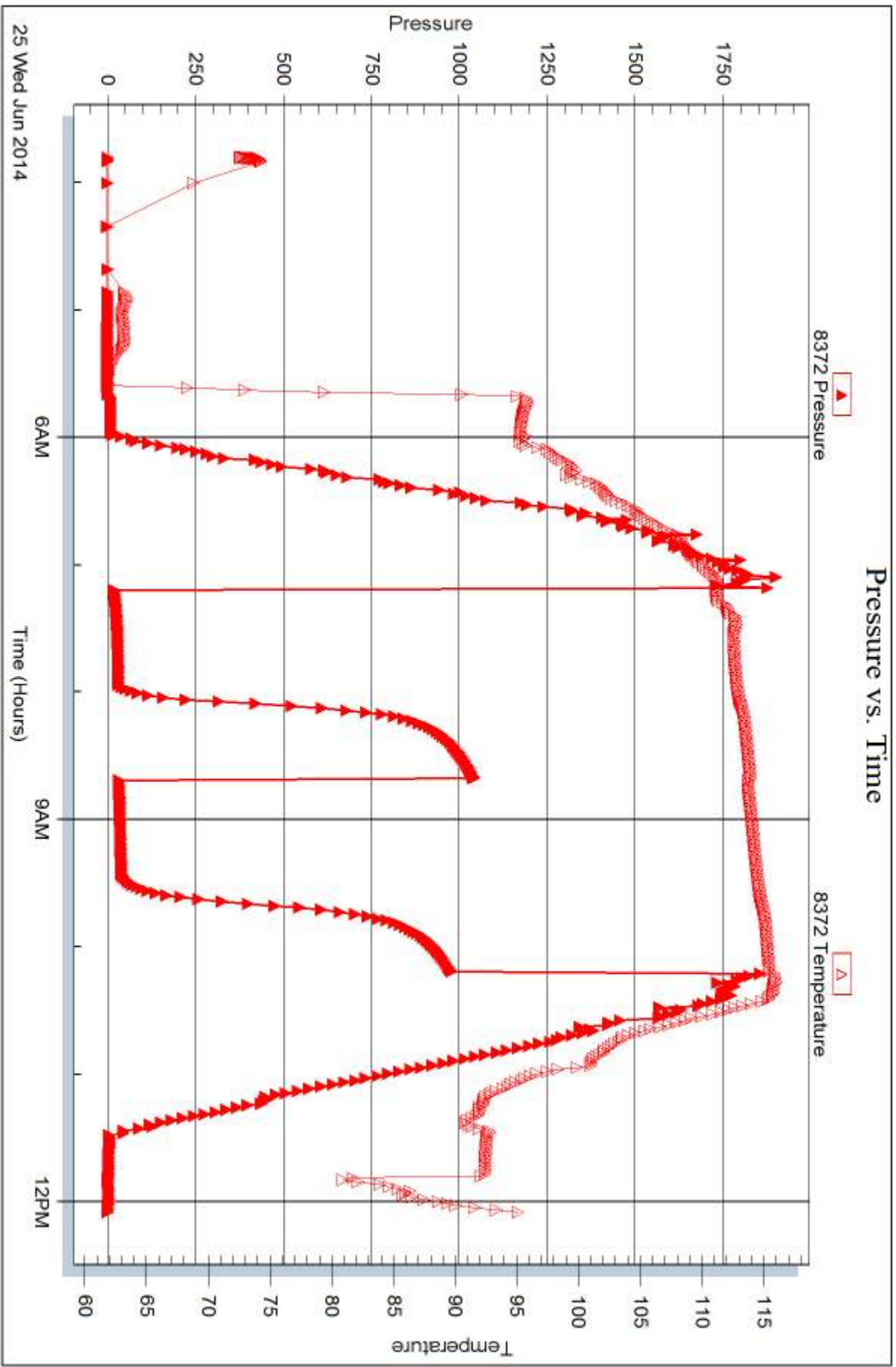
Serial #: 8372

Inside

Dow nrg-Nelson Oil Co. Inc.

Seitz-Barrhardt #C-4

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 59429

Printed: 2014.06.27 @ 10:35:06



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Seitz-Barrhardt #C-4

34-12S-21W Trego,KS

Start Date: 2014.06.26 @ 01:30:30

End Date: 2014.06.26 @ 08:30:00

Job Ticket #: 59430 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.27 @ 10:34:24



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-Barrhardt #C-4

Job Ticket: 59430

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 01:30:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:00

Time Test Ended: 08:30:00

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 48

Interval: 3790.00 ft (KB) To 3865.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3953.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321

Inside

Press@RunDepth: 160.74 psig @ 3861.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.26

End Date:

2014.06.26

Last Calib.:

2014.06.26

Start Time: 01:30:31

End Time:

08:30:00

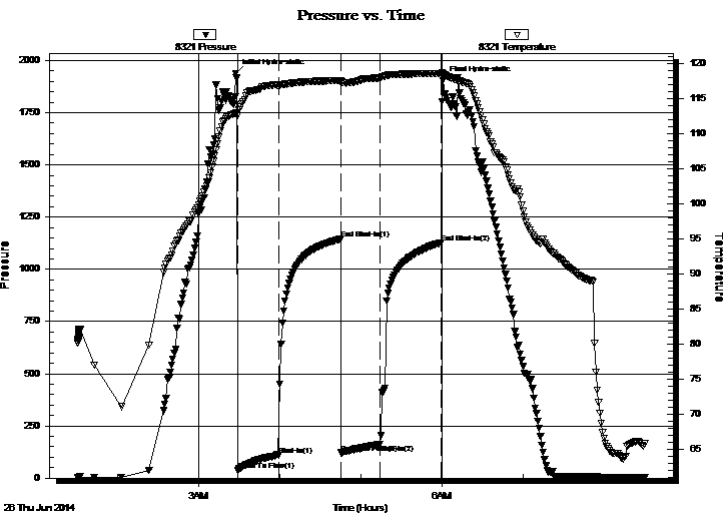
Time On Btm:

2014.06.26 @ 03:27:30

Time Off Btm:

2014.06.26 @ 06:01:00

TEST COMMENT: 30- IF- BOB 12 mins
45- IS- No blow
30- FF- Slow ly built to 9"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1938.69	112.88	Initial Hydro-static
2	37.79	112.58	Open To Flow (1)
32	110.50	116.84	Shut-In(1)
78	1144.77	117.54	End Shut-In(1)
78	120.55	117.29	Open To Flow (2)
107	160.74	117.98	Shut-In(2)
152	1126.32	118.52	End Shut-In(2)
154	1904.35	118.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
225.00	OCM, 10%O 90%M	2.80
60.00	M	0.82

* 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-Barrhardt #C-4

Job Ticket: 59430

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 01:30:30

Tool Information

Drill Pipe:	Length: 3771.00 ft	Diameter: 3.75 inches	Volume: 51.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3790.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3865.00 ft			
Interval betw een Packers:	75.00 ft			
Tool Length:	183.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3771.00	
Shut In Tool	5.00			3776.00	
Hydraulic tool	5.00			3781.00	
Packer	5.00			3786.00	20.00 Bottom Of Top Packer
Packer	4.00			3790.00	
Stubb	1.00			3791.00	
Change Over Sub	1.00			3792.00	
Drill Pipe	63.00			3855.00	
Change Over Sub	1.00			3856.00	
Perforations	5.00			3861.00	
Recorder	0.00	8321	Inside	3861.00	
Recorder	0.00	8372	Outside	3861.00	
Blank Off Sub	1.00			3862.00	
Blank Spacing	3.00			3865.00	75.00 Tool Interval
Packer	1.00			3866.00	
Stubb	1.00			3867.00	
Perforations	18.00			3885.00	
Change Over Sub	1.00			3886.00	
Recorder	0.00	8647	Below	3886.00	
Blank Spacing	63.00			3949.00	
Change Over Sub	1.00			3950.00	
Bullnose	3.00			3953.00	88.00 Bottom Packers & Anchor

Total Tool Length: 183.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co. Inc.

34-12S-21W Trego,KS

PO Box 1019
Hays, KS 67601

Seitz-Barrhardt #C-4

Job Ticket: 59430

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 01:30:30

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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
225.00	OCM, 10%O 90%M	2.803
60.00	M	0.820

Total Length: 285.00 ft

Total Volume: 3.623 bbf

Num Fluid Samples: 0

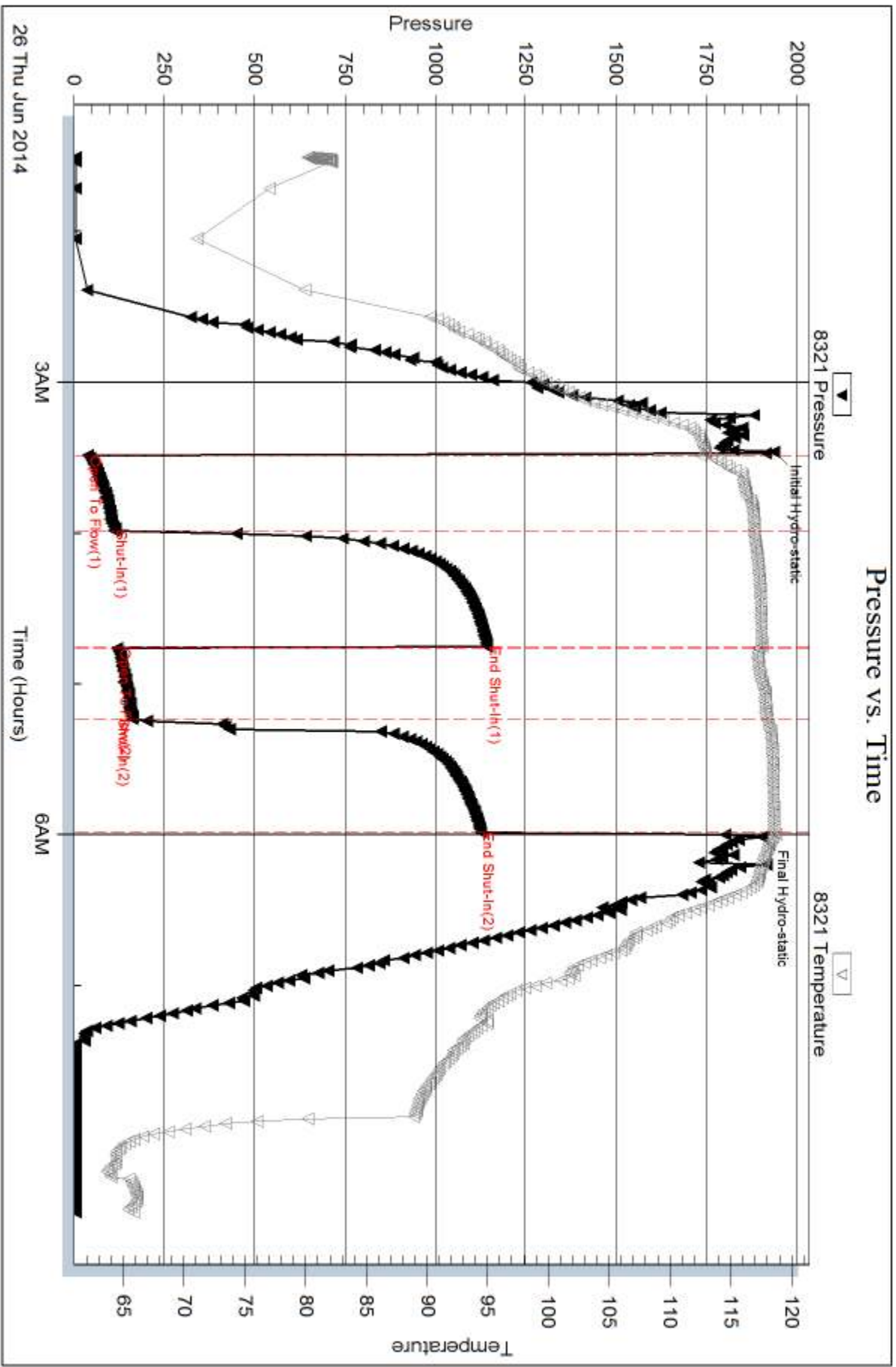
Num Gas Bombs: 0

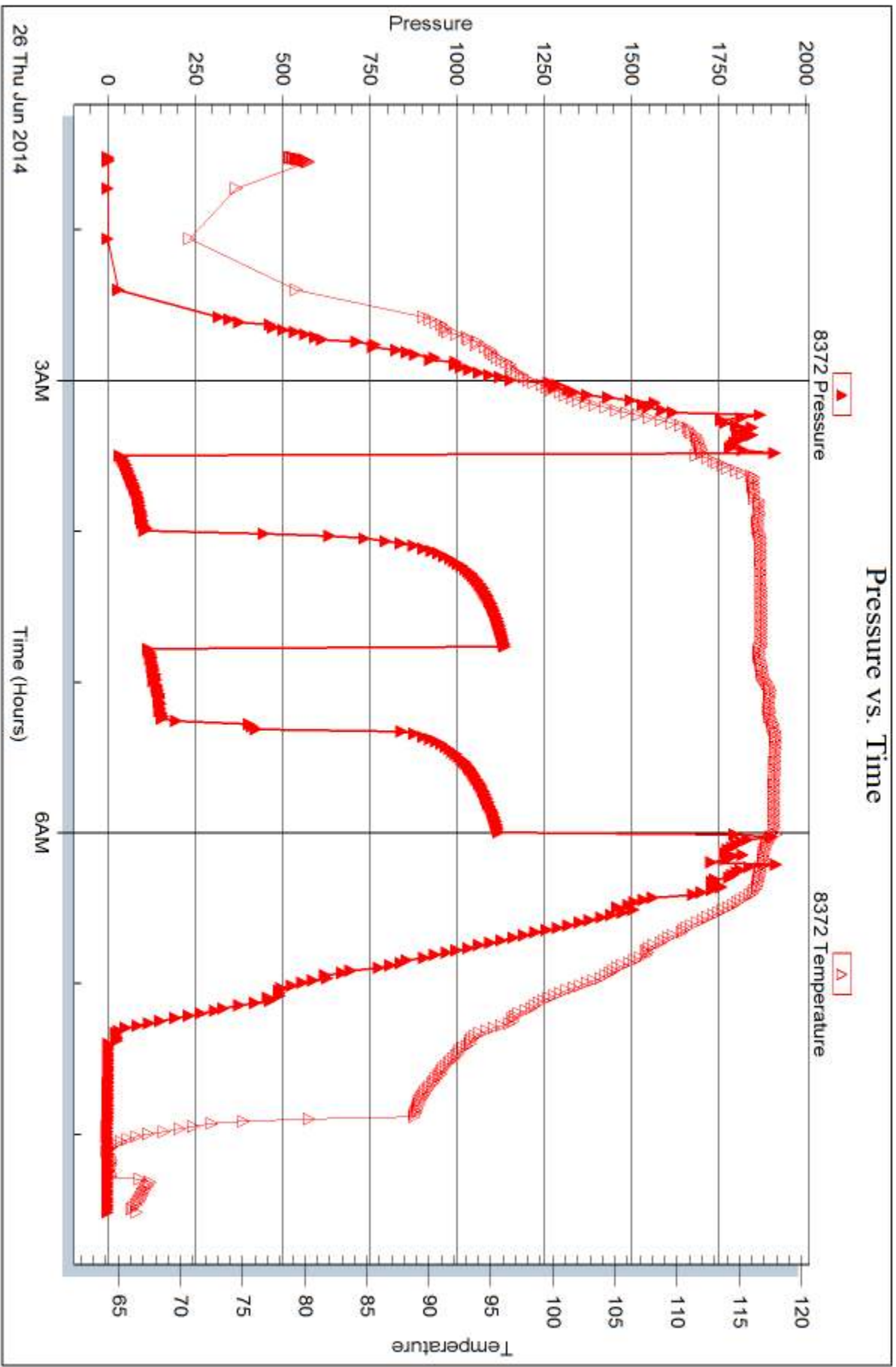
Serial #:

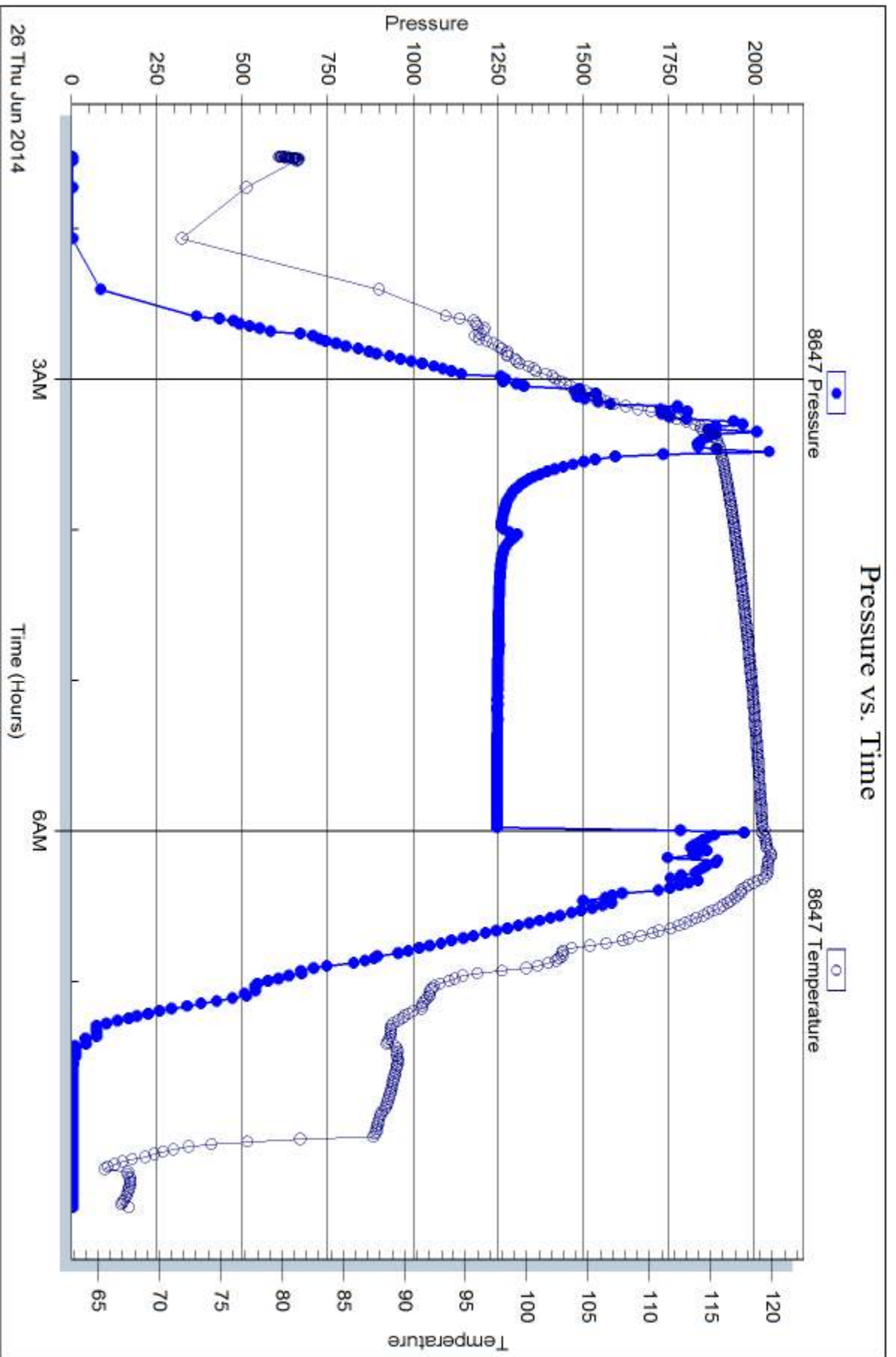
Laboratory Name:

Laboratory Location:

Recovery Comments:









DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Seitz-Barrhardt #C-4

34-12S-21W Trego,KS

Start Date: 2014.06.26 @ 09:05:45

End Date: 2014.06.26 @ 17:03:45

Job Ticket #: 59431 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.27 @ 10:32:14



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-Barrhardt #C-4

Job Ticket: 59431

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 09:05:45

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:15

Time Test Ended: 17:03:45

Test Type: Conventional Straddle (Reset)

Tester: Brannan Lonsdale

Unit No: 48

Interval: 3865.00 ft (KB) To 3880.00 ft (KB) (TVD)

Reference Elevations: 2196.00 ft (KB)

Total Depth: 3953.00 ft (KB) (TVD)

2188.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8372 Outside

Press@RunDepth: 365.01 psig @ 3876.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.26

End Date:

2014.06.26

Last Calib.:

2014.06.26

Start Time: 09:05:46

End Time:

17:03:45

Time On Btm:

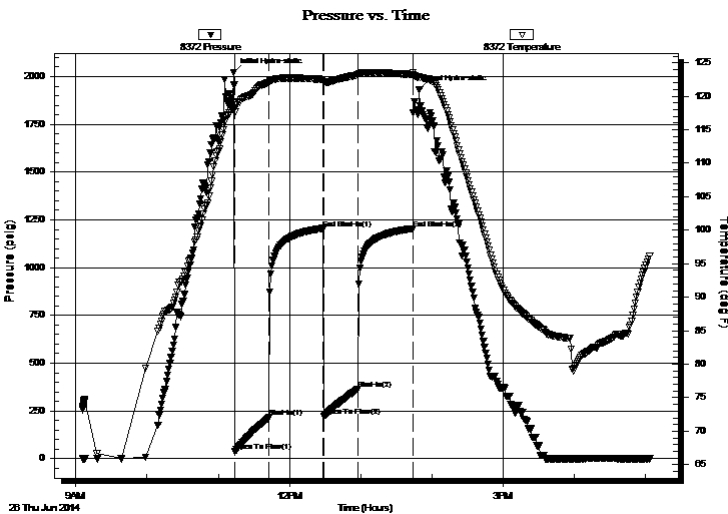
2014.06.26 @ 11:12:45

Time Off Btm:

2014.06.26 @ 13:49:15

TEST COMMENT: 30- IF- BOB 6 mins
45- IS- Very weak surface blow
30- FF- BOB 7 mins
45- FS- Very weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2021.75	118.18	Initial Hydro-static
2	40.16	117.59	Open To Flow (1)
30	215.16	122.00	Shut-In(1)
76	1205.53	122.50	End Shut-In(1)
77	221.60	122.19	Open To Flow (2)
105	365.01	123.15	Shut-In(2)
151	1204.32	123.23	End Shut-In(2)
157	1932.25	122.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
645.00	SOCMW, 10%O 15%M 75%W	8.54
20.00	CO ₂	0.27

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.

34-12S-21W Trego,KS

PO Box 1019
Hays, KS 67601

Seitz-Barrhardt #C-4

Job Ticket: 59431

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 09:05:45

Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.75 inches	Volume: 52.39 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	7000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	59000.00 lb
Drill Pipe Above KB:	21.00 ft			Final	62000.00 lb
Depth to Top Packer:	3865.00 ft				
Depth to Bottom Packer:	3880.00 ft				
Interval betw een Packers:	15.00 ft				
Tool Length:	108.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3846.00	
Shut In Tool	5.00			3851.00	
Hydraulic tool	5.00			3856.00	
Packer	5.00			3861.00	20.00 Bottom Of Top Packer
Packer	4.00			3865.00	
Stubb	1.00			3866.00	
Perforations	10.00			3876.00	
Recorder	0.00	8321	Inside	3876.00	
Recorder	0.00	8372	Outside	3876.00	
Blank Off Sub	1.00			3877.00	
Blank Spacing	3.00			3880.00	15.00 Tool Interval
Packer	1.00			3881.00	
Stubb	1.00			3882.00	
Perforations	3.00			3885.00	
Change Over Sub	1.00			3886.00	
Recorder	0.00	8647	Below	3886.00	
Blank Spacing	63.00			3949.00	
Change Over Sub	1.00			3950.00	
Bullnose	3.00			3953.00	73.00 Bottom Packers & Anchor

Total Tool Length: 108.00



**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-Barrhardt #C-4

Job Ticket: 59431

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.06.26 @ 09:05:45

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:

32000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
645.00	SOCMW, 10%O 15%M 75%W	8.540
20.00	CO ₂	0.273

Total Length: 665.00 ft

Total Volume: 8.813 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

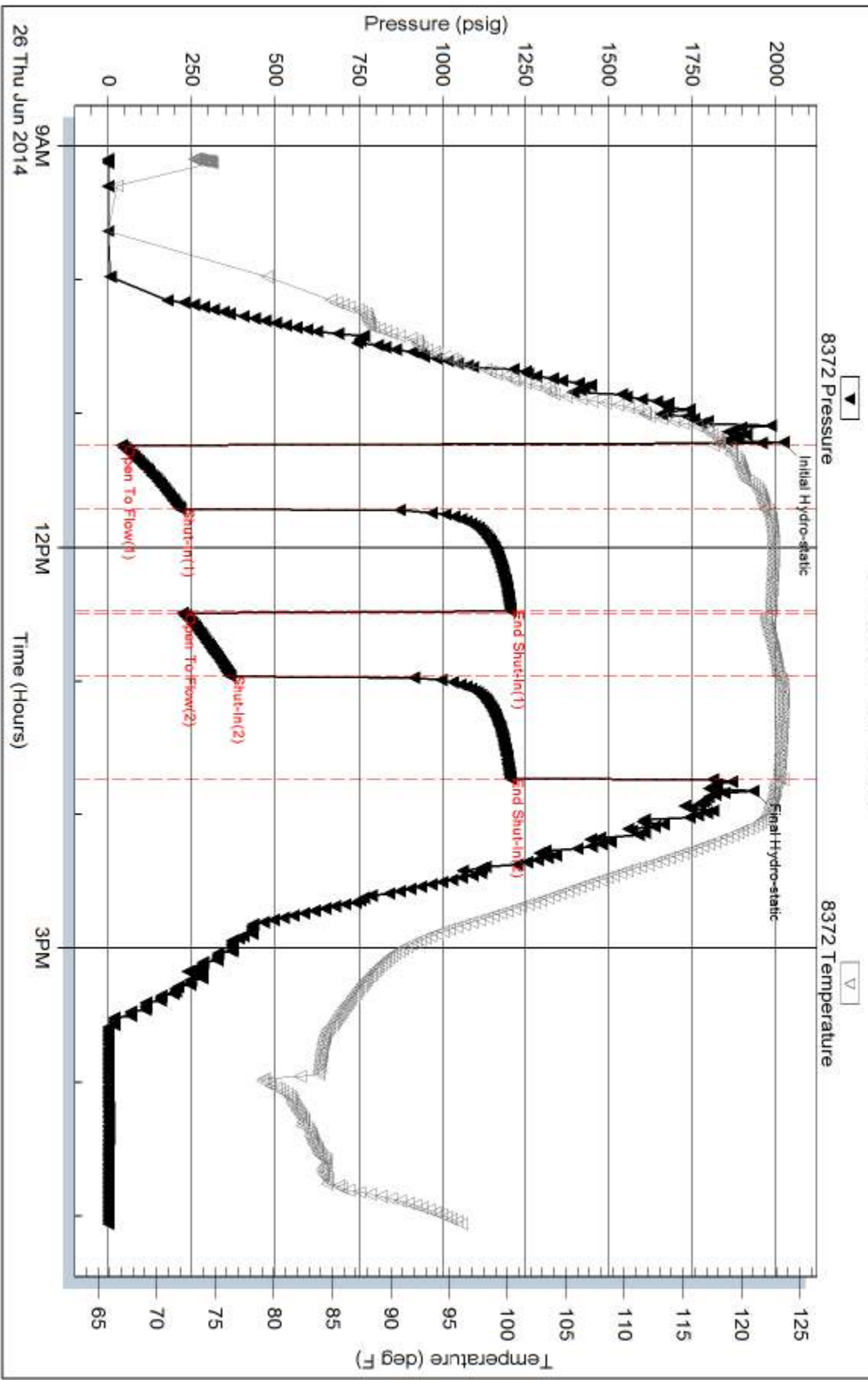
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

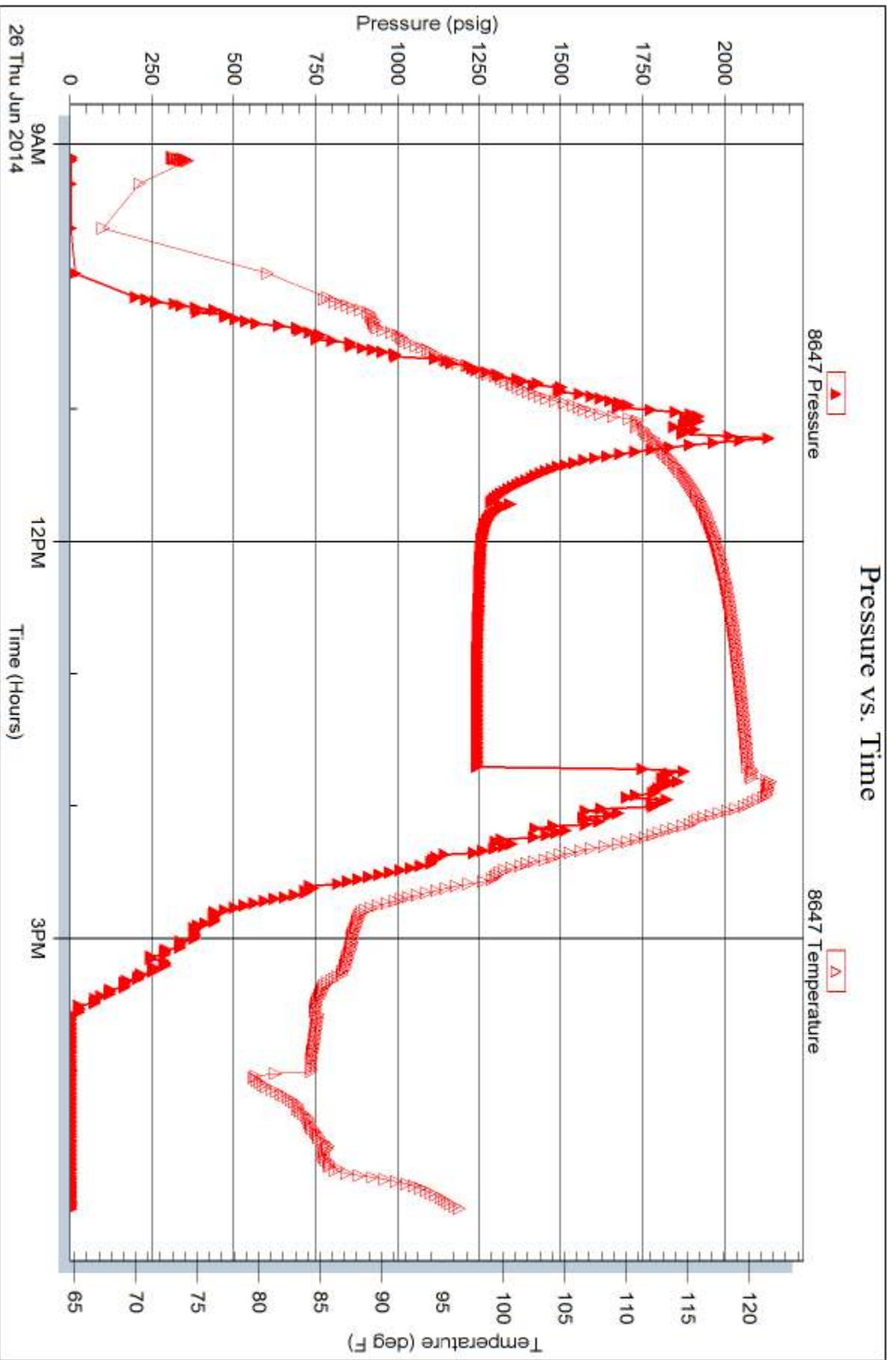


Serial #: 8647

Below (Str-Rath)eng-Nelson Oil Co. Inc.

Seitz-Barrhardt #C-4

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 59431

Printed: 2014.06.27 @ 10:32:15

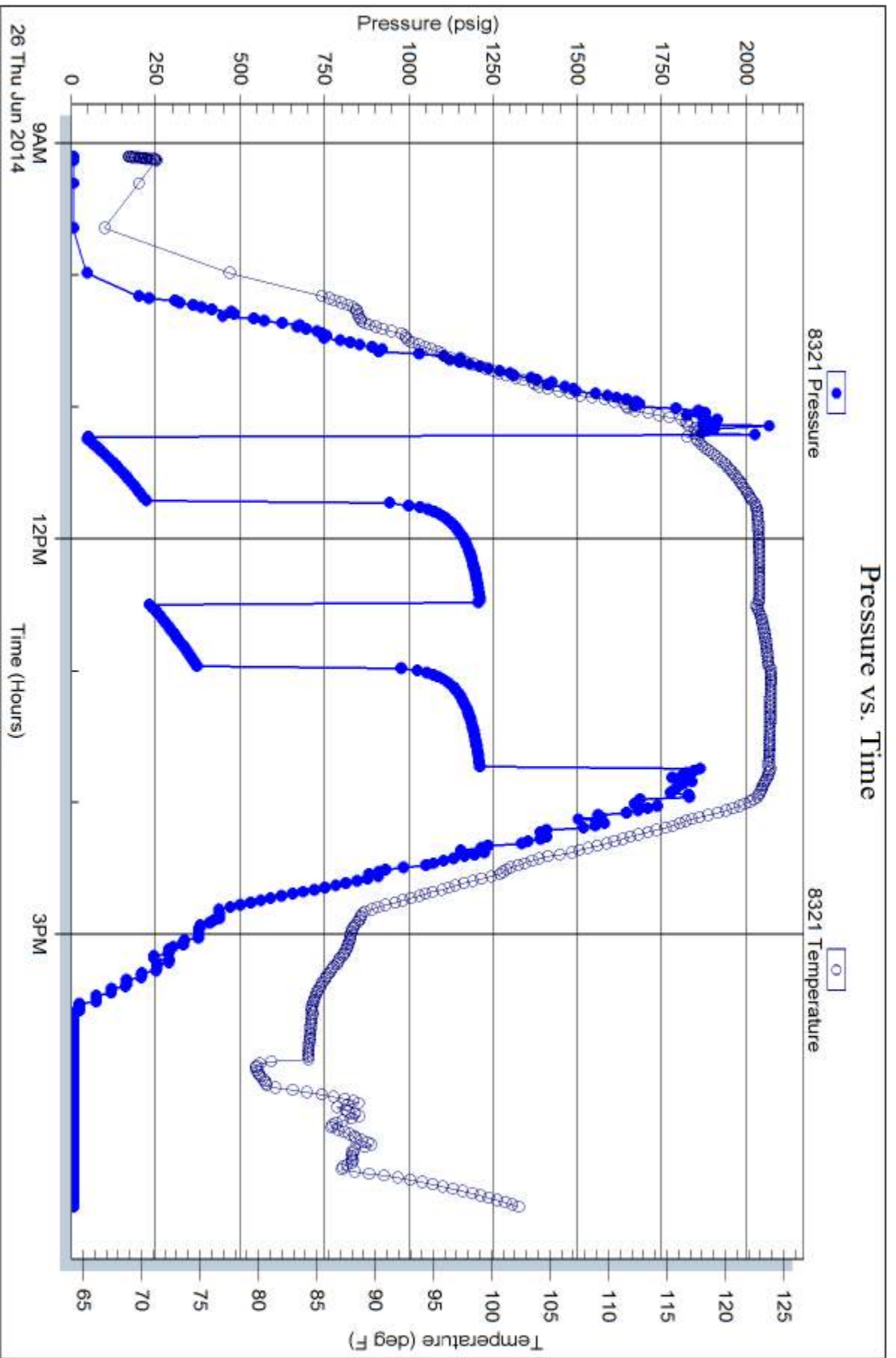
Serial #: 8321

Inside

Dow n/g-Nelson Oil Co. Inc.

Seitz-Barrhardt #C-4

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 59431

Printed: 2014.06.27 @ 10:32:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59429

Well Name & No. Seitz-Barhardt # C-4 Test No. 1 Date 6/25/14
 Company Downing-Nelson Oil Co. Inc. Elevation 2196 KB 2188 GL
 Address 1019 PO Box Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 24 Twp. 12S Rge. 21W Co. Trego State KS

Interval Tested 3792-3847 Zone Tested Arbuckle
 Anchor Length 55' Drill Pipe Run 3771 Mud Wt. 9.1
 Top Packer Depth 3787 Drill Collars Run 31 Vis 53
 Bottom Packer Depth 3792 Wt. Pipe Run — WL 8.0
 Total Depth 3847 Chlorides 5,000 ppm System LCM 2#

Blow Description IF - Slowly built to 3"
ISF - No blow
FF - Slowly built to 2"
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>CO</u>				
<u>40</u>	<u>MCO</u>		<u>60</u>		<u>40</u>

Rec Total 65 BHT 116° Gravity 36 API RW — @ — °F Chlorides — ppm

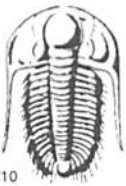
(A) Initial Hydrostatic 1903 Test 1150 T-On Location 0250
 (B) First Initial Flow 23 Jars — T-Started 0348
 (C) First Final Flow 37 Safety Joint — T-Open 0711
 (D) Initial Shut-In 1050 Circ Sub — T-Pulled 1011
 (E) Second Initial Flow 38 Hourly Standby — T-Out 1205
 (F) Second Final Flow 44 Mileage 48 RT 74.40 Comments —
 (G) Final Shut-In 984 Sampler —
 (H) Final Hydrostatic 1862 Straddle — Ruined Shale Packer —

Initial Open 45 Shale Packer — Ruined Packer —
 Initial Shut-In 45 Extra Packer — Extra Copies —
 Final Flow 45 Extra Recorder — Sub Total 0
 Final Shut-In 45 Day Standby — Total 1224.40
 Accessibility — MP/DST Disc't —

Sub Total 1224.40

Approved By — Our Representative Braman Lonsdale

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. 59430

4/10

Well Name & No. Sertz-Barhardt # C-4 Test No. 2 Date 6/26/14
 Company Downing-Nelson Oil Co. Inc Elevation 2196 KB 2188 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 34 Twp. 12S Rge. 21W Co. Trego State K5

Interval Tested 3790-3865 Zone Tested Arbuckle
 Anchor Length 25' Tail 88' Drill Pipe Run 3771 Mud Wt. 9.1
 Top Packer Depth 3785-3790 Drill Collars Run 31 Vis 53
 Bottom Packer Depth 3865 Wt. Pipe Run WL 8.0
 Total Depth 3953 Chlorides 3000 ppm System LCM 2[#]
 Blow Description IF-BOB 12 mins
ISI- No blow
FF- Slowly built to 9"
PSI- No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>M</u>				
<u>225</u>	<u>OCM</u>		<u>10</u>		<u>90</u>

Rec Total 285 BHT 119° Gravity API RW @ ° F Chlorides ppm

(A) Initial Hydrostatic 1939 Test 1150 T-On Location 0115
 (B) First Initial Flow 38 Jars T-Started 0131
 (C) First Final Flow 111 Safety Joint T-Open 0329
 (D) Initial Shut-In 1145 Circ Sub T-Pulled 0559
 (E) Second Initial Flow 121 Hourly Standby T-Out 0830
 (F) Second Final Flow 161 Mileage 48 RT 74.40 Comments
 (G) Final Shut-In 1126 Sampler
 (H) Final Hydrostatic 1904 Straddle 600 Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Extra Recorder Sub Total 0
 Day Standby Total 1824.40
 Accessibility MP/DST Disc't
 Sub Total 1824.40

Approved By Our Representative Brannan Lonsdale

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. 59431

Well Name & No. Sartz-Barhardt #C-4 Test No. 3 Date 6/26/14
 Company Downing-Nelson Oil Co. Inc. Elevation 2196 KB 2188 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Narc Downing Rig Discovery #3
 Location: Sec. 34 Twp. R5 Rge. 21W Co. Trego State KS

Interval Tested 3865-3880 Zone Tested Arbuckle
 Anchor Length 15' Tail 73' Drill Pipe Run 3835 Mud Wt. 9.1
 Top Packer Depth 3860-3865 Drill Collars Run 31 Vis 53
 Bottom Packer Depth 3880 Wt. Pipe Run — WL 8.0
 Total Depth 3953 Chlorides 3000 ppm System LCM 2#

Blow Description IF-BOB 6mins
ISI - Very weak surface blow
FF-BOB 7mins
FST - Very weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>CO</u>				
<u>645</u>	<u>SOCMW</u>		<u>10</u>	<u>75</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 665 BHT 123° Gravity _____ API RW .16 @ 86 °F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2022 Test 1150 T-On Location 0830
 (B) First Initial Flow 40 Jars _____ T-Started 0906
 (C) First Final Flow 215 Safety Joint _____ T-Open 1113
 (D) Initial Shut-In 1206 Circ Sub _____ T-Pulled 1343
 (E) Second Initial Flow 222 Hourly Standby _____ T-Out 1703
 (F) Second Final Flow 365 Mileage 48 RT 74.40
 (G) Final Shut-In 1204 Sampler _____
 (H) Final Hydrostatic 1932 Straddle 600 Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1824.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1824.40

Approved By _____ Our Representative Brannan Lonsdale

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